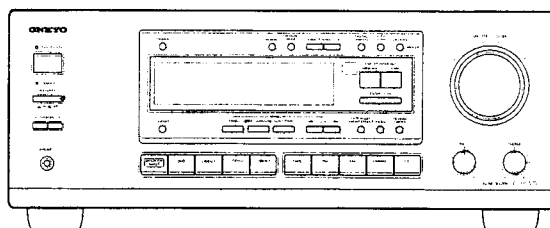


ONKYO® SERVICE MANUAL**AUDIO VIDEO
CONTROL RECEIVER
MODEL TX-DS575****Black and Silver and Golden models**

BMD	120V AC, 60Hz
BMP/BMPT/BMPA/ SMP/GMPT	230V AC, 50Hz
BMWT/BMWR/GMWT/ GMWR	220-230V/120V AC, 50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

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ONKYO®
AUDIO COMPONENTS

SPECIFICATIONS

AMPLIFIER SECTION

Continuous Average Power
output (FTC)

All channels: 70 watts per channel min. RMS at 8 ohms, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.
90 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.

Continuous Power output (DIN) 100 watts \times 5 at 6 ohms
Maximum Power output (EIAJ) 130 watts \times 5 at 6 ohms
Total Harmonic Distortion: 0.08% at rated power (Front)
IM Distortion: 0.08% at rated power (Front)
Damping Factor: 60 at 8 ohms (Front)

Input Sensitivity and Impedance

PHONO: 2.5 mV, 50 kohms

LINE (CD, TAPE, DVD, VIDEO 1, 2, 3): 200 mV, 50 kohms

MULTICHANNEL INPUT
(FRONT L/R, SUR-

ROUND L/R, CENTER): 200 mV, 50 kohms

(SUBWOOFER): 36 mV, 50 kohms

COAXIAL 1, 2 (DIGITAL): 0.5 Vp-p, 75 ohms

Output Level and Impedance

Rec out (TAPE, VIDEO 1): 200 mV, 2.2 kohms

Pre out (SUBWOOFER): 1 V, 2.2 kohms

Phono Overload: 70 mV RMS at 1 kHz, 0.5% T.H.D.

Frequency Response: 20 Hz to 30 kHz, ± 1 dB

RIAA Deviation: 20 Hz to 20 kHz, ± 0.8 dB

Tone Control

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Signal-to-Noise Ratio

Phono: 80 dB (IHF A, 5 mV input)

CD/Tape: 100 dB (IHF A)

VIDEO SECTION

Input sensitivity/Impedance

(DVD, VIDEO 1, 2, 3)

VIDEO (Composite): 1 Vp-p, 75 ohms

Output Level/Impedance

(VIDEO 1, MONITOR)

VIDEO (Composite): 1 Vp-p, 75 ohms

TUNER SECTION

FM

Tuning Range: 87.5 — 108.0 MHz

Usable Sensitivity

Mono: 11.2 dBf, 1.0 μ V (75 ohms)

Stereo: 17.2 dBf, 2.0 μ V (75 ohms)

50 dB Quietening Sensitivity

Mono: 17.2 dBf, 2.0 μ V (75 ohms)

Stereo: 37.2 dBf, 20 μ V (75 ohms)

Capture Ratio: 2.0 dB

Image Rejection Ratio

U.S.A. & Canadian models: 40 dB

Other area models: 85 dB

IF Rejection Ratio: 90 dB

Signal-to-Noise Ratio

Mono: 76 dB

Stereo: 70 dB

Alternate Channel Attenuation: 55 dB

Selectivity: 50 dB (DIN)

AM Suppression Ratio: 50 dB

Total Harmonic Distortion

Mono: 0.2%

Stereo: 0.3%

Frequency Response: 30 Hz — 15 kHz, ± 1.0 dB

Stereo Separation: 45 dB at 1 kHz

30 dB at 100 Hz — 10 kHz

AM

Tuning Range

U.S.A. & Canadian models: 530—1,710 kHz (10 kHz steps)

European & Australian models: 522—1,611 kHz (9 kHz steps)

Worldwide models:

531—1,602 kHz (9 kHz steps),

530—1,710 kHz (10 kHz steps)

Usable Sensitivity: 30 μ V

Image Rejection Ratio: 40 dB

IF Rejection Ratio: 40 dB

Signal-to-Noise Ratio: 40 dB

Total Harmonic Distortion: 0.7%

GENERAL

Power Supply:

AC 120 V, 60 Hz

AC 230 V, 50 Hz

AC 220-230 V and 120 V switchable,

50/60 Hz

Power Consumption:

3.9 A

325 W

Dimensions (W \times H \times D):

435 \times 175 \times 390 mm

17-1/8" \times 6-7/8" \times 15-3/8"

Weight:

12.3 kg, 27.1 lbs.

13.0 kg, 28.7 lbs.

12.9 kg, 28.4 lbs.

REMOTE CONTROL

Transmitter:

Infrared

Signal range:

Approx. 5 meters, 16 ft.

Power supply:


Two "AA" batteries (1.5 V \times 2)


Specifications and features are subject to change without notice.

Power supply and voltage vary depending on the area in which the unit is purchased.

SERVICE PROCEDURES

1. Replacing the fuses

 This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est a rapide. Pour une protection permanente, n'utiliser que fusibles de meme type. Ce dernier est la qu le present symbol est appse.

CIRCUIT NO.	PART NO.	DESCRIPTION
F911	252198Y	8A-UL, Primary <D/W>
F922	252077 or 252243	4A-SE-EAK or 4A-SE-TL250V,Primary <P/T/W/A>
F933	252075 or 252241	2.5A-SE-EAK or 2.5A-SE-TL250V,AC outlet <P/T>

Note: <D>:120V model only
 <P>: European model only
 <T>: Asian model only
 <W>:Worldwide model only
 <A>: Australian model only

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

1. Press and hold down the VIDEO-1 button, then press the SPEAKER A button.
2. After "clear" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.

3. Safety-check out

(Only U.S.A. model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer. Connect the insulating-resistance tester between the plug of power supply cord and screw on the back panel. Specifications: 3.3Mohm \pm 10% at 500V.

4. Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

5. Setting the AM tuning step frequency (Worldwide models only)

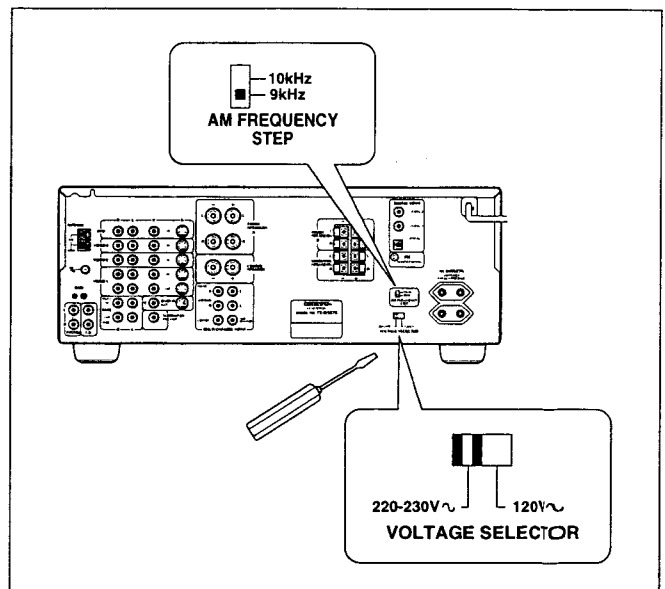
Worldwide models are equipped with a switch that controls the AM band tuning steps. Please set this switch to match the AM band tuning step frequency in your area.

U.S.A. and Canada : 10 kHz
 Other areas : 9 kHz

6. Setting the Voltage selector (Worldwide models only)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

1. Determine the proper voltage for your area: 220-230 V or 120 V.
2. If the preset voltage is not correct for your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-230 V), whichever is appropriate.

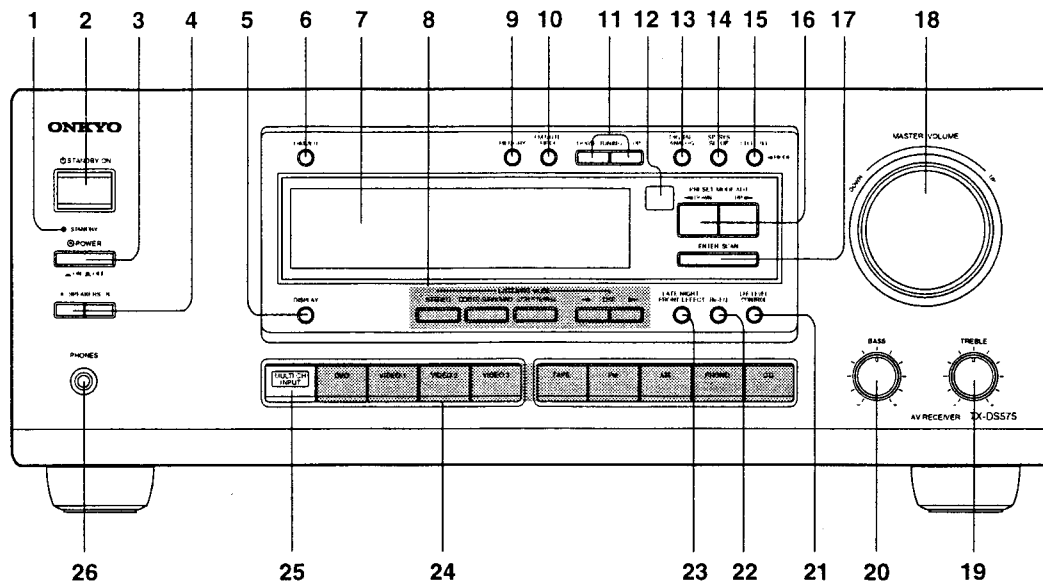


7. Changing the AM band step

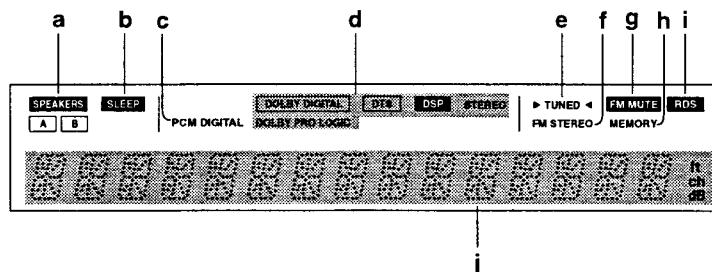
With the exception of the worldwide models, a tunings tep selector switch is not provided. When you change the band step, change the parts as shown below.

	To 10kHz	To 9kHz
R7077	Open	2.2k
R7130	10k	18k

PANEL VIEWS



Display



Front panel

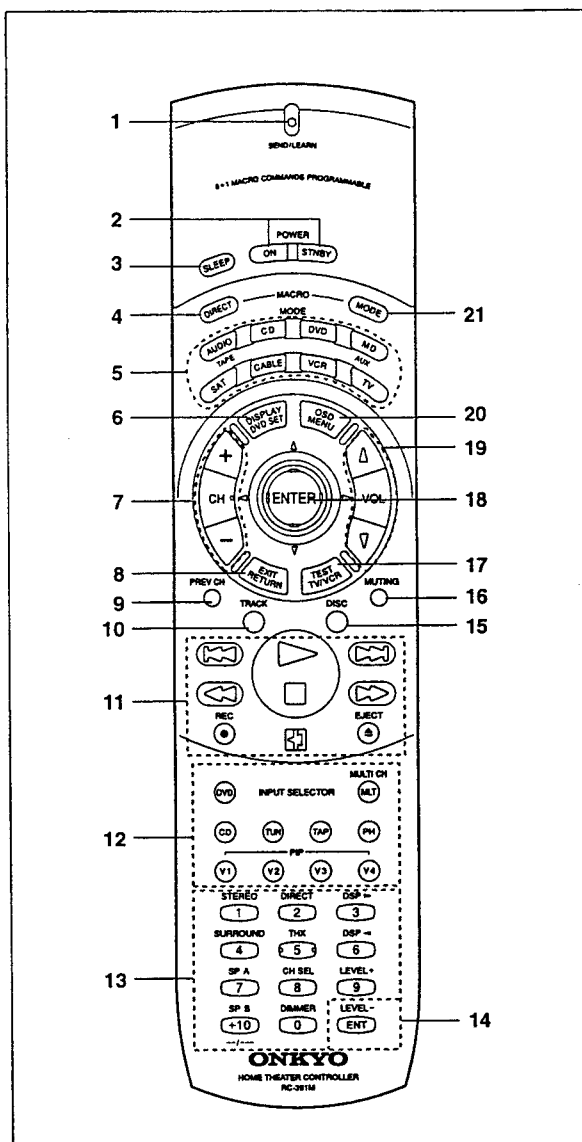
1. STANDBY indicator
2. STANDBY/ON button
3. POWER switch
4. SPEAKERS A/B button
5. DISPLAY button
6. DIMMER button
7. PTY/TP button (European model only)
8. Display (Refer to the "Display" illustration.)
8. LISTENING MODE buttons
 - STEREO button
 - DTS/DTS SURROUND button
 - 5 CH STEREO button
 - DSP ◀/▶ (DOWN/UP) button
9. MEMORY button
10. FM MUTE/MODE button
11. TUNING UP/DOWN buttons
12. Remote control sensor
13. DIGITAL/ANALOG button
14. SP/SYS SETUP button
15. CH LEVEL button
16. PRESET/MODE ADJ ◀/▶ button
17. ENTER/SCAN button
18. MASTER VOLUME control knob
19. TREBLE control knob
20. BASS control knob

21. LFE LEVEL CONTROL button
22. Re-EQ button
23. LATE NIGHT/FRONT EFFECT button
24. Input selector buttons
25. MULTI CHANNEL INPUT button
26. PHONES jack

Display

- a. Speakers A/B indicators
- b. Sleep indicator
- c. PCM digital indicator
- d. Listening mode indicators
- e. Tuned indicators
- f. FM Stereo indicator
- g. FM Mute On/Off indicator
- h. Memory indicator
- i. RDS station received indicator (European model only)
- j. Multi function display (Frequency and Preset station/Input selector/Sleep time/Volume level/Listening mode)

Remote controller



Controlling an Onkyo DVD player

1. Press the MODE DVD button.
 2. Press the desired DVD operation button.
- POWER ON/STBY** : Turning the power on and off to the DVD player
- DVD SET** : DVD setup
- DVD player on-screen button**
- MENU** : Displaying the menu
- Δ ∇ Δ Δ** : Moving the cursor
- ENTER** : Confirming the selection
- RETURN** : Return
- DVD player buttons**
- : Down
 - : Up
 - : Playback
 - : Stop
 - : Rewind
 - : Fast forward
 - : Pause
 - EJECT ▲** : Eject
 - 0, 1-9, +10** : Numeric keys
 - ENT** : Confirm

Remote controller

Using the remote controller, you can control a CD player or cassette tape deck connected to the **RI** connector of the unit.

Make sure that you point the transmission part on the remote controller toward the sensor area on the MD recorder and DVD player.

1. SEND/LEARN indicator
2. POWER ON/STBY button Power on/Standby on
3. SLEEP button Sleep function button
4. MACRO DIRECT button Macro Direct function
5. MODE buttons
6. DISPLAY/DVD SET button
7. CH +/- buttons
8. EXIT/RETURN button
9. PREV CH button [This button is not used for this unit.]
10. TRACK button
11. CD/TAPE/DVD/MD operation buttons
12. Input Selector buttons
The V4 button is not used for this unit.
13. Numeric key/STEREO/DSP, SURROUND/SP A, B/CH SEL/LEVEL+, DIMMER buttons
[The DIRECT button and THX* button are not used for this unit.]
14. ENT button
15. DISC button
16. MUTING button Mute button
17. TEST/TV/VCR button
18. ENTER/cursor buttons
19. VOL +/- button Volume adjustment
20. OSD/MENU button
21. MACRO MODE button

Controlling an Onkyo CD player

1. Press the MODE CD button.
 2. Press the desired CD operation button.
- TRACK** : Selecting a track
- DISC** : Selecting a disk in the CD changer
- : Down
 - : Up
 - : Playback
 - : Stop
 - : Rewind
 - : Fast forward
 - : Pause
 - EJECT ▲** : Eject
 - 0, 1-9, +10** : Numeric keys

Controlling an Onkyo tape deck

1. Press the MODE AUDIO/TAPE button.
 2. Press the desired tape deck operation button.
- : Playback
 - : Stop
 - : Rewind
 - : Fast forward
 - REC ●** : Recording/pause
 - : Reverse playback

Controlling an Onkyo MD recorder

1. Press the MODE MD/AUX button.
 2. Press the desired MD operation button.
- Turning the power on and off to the MD recorder
- POWER ON/STBY**
- : Turning on or standby the power to the MD recorder
 - : Up
 - : Playback
 - : Stop
 - : Rewind
 - : Fast forward
 - REC ●** : Record
 - : Pause
 - EJECT ▲** : Eject
 - 1-9, +10** : Numeric keys
 - ENT** : Confirm

USING A MACRO FUNCTION

What is a Macro function?

A Macro function enables you to program a series of button operations on the remote controller into a single button. For example, you need to follow the steps below to play a CD player connected to the unit without using the Macro function:

1: Press the MODE AUDIO button. → 2: Press the POWER ON button. → 3: Press the CD (INPUT SELECTOR) button. → 4: Press the MODE CD button. → 5: Use the numeric keys to select the desired song.

This operation will be two button presses away if you program these steps into a macro button.

Programming Macro mode

You may program the desired steps into each of eight MODE buttons. The following example explains how to program Steps 1-5 (described above) into the MACRO MODE button under the MODE CD button (CD mode).

1. Press and hold down the desired MODE button you wish to program (in this case, MODE CD button), and press the MACRO MODE button. Then release the buttons.

When you press the MODE CD button, the SEND/LEARN indicator lights up. When you press the MACRO MODE button, the indicator turns off.

When you release the buttons, the indicator flashes briefly, then lights up again.

2. Press the operation buttons in series you wish to program into the MACRO MODE button.

Press the MODE AUDIO, POWER ON, CD (INPUT SELECTOR), MODE CD buttons, and a numeric key. When you press the button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights up.

3. Press the MACRO MODE button to complete programming.

The SEND/LEARN indicator flashes twice slowly.

Repeat Steps 1-3 to program other series of button operations into another MODE button.

4. Check to see if the series of button operation has been correctly learned.

Point the remote controller toward the TX-DS575, press the MODE CD button, and press the MACRO MODE button to see if the unit responds as programmed.

Transmitting the codes in Macro mode takes a while. During transmission, point the remote controller toward the device to be controlled.

Programming Macro Direct

A series of remote controller button operations can be memorized into the MACRO DIRECT button for one-touch control.

Note:

You can program only one series of button operations into the MACRO DIRECT button.

1. Press and hold down any one of the eight MODE buttons and press the MACRO DIRECT button. Then, release the buttons.

When you press the MODE button, the SEND/LEARN indicator lights up. When you press the MACRO DIRECT button, the indicator turns off. When you release the buttons, the indicator flashes briefly, then lights up again.

2. Follow Steps 2 in the Programming Macro mode.

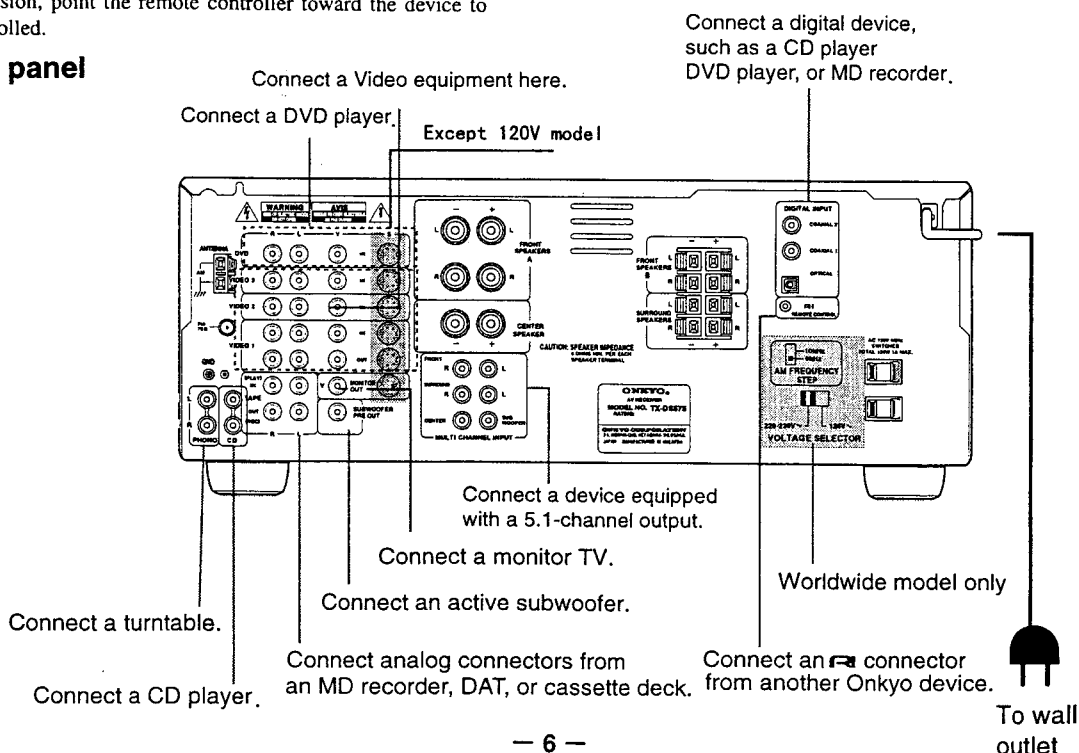
3. Press the MACRO DIRECT button to complete the procedure.

The SEND/LEARN indicator flashes twice slowly.

4. Check to see if the button has been programmed correctly. Point the RC-391M toward the TX-DS575 and press the MACRO DIRECT button, and make sure that the device responds as programmed.

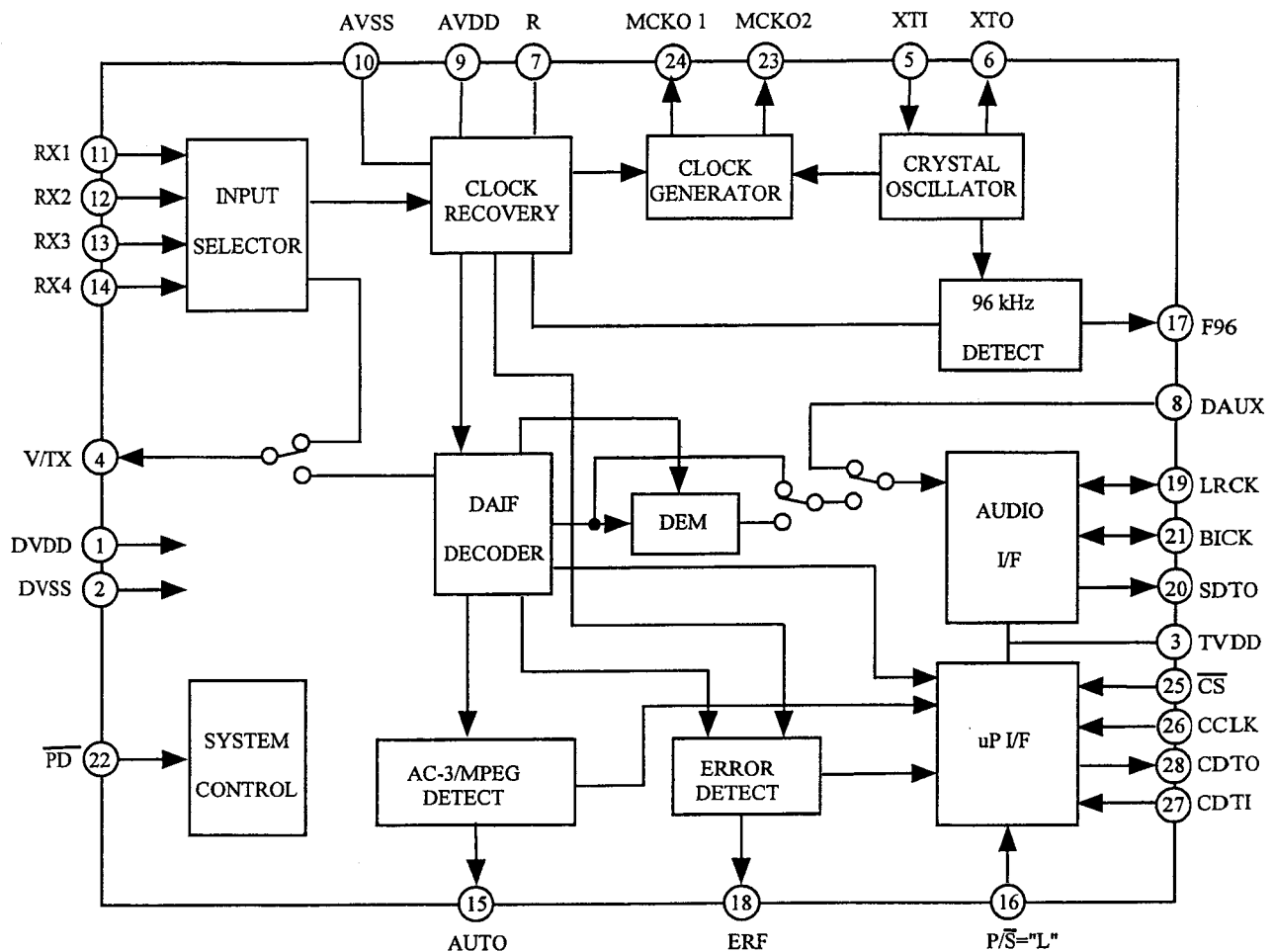
Transmitting the codes in Macro mode takes a while. During transmission, point the remote controller toward the device to be controlled.

Rear panel



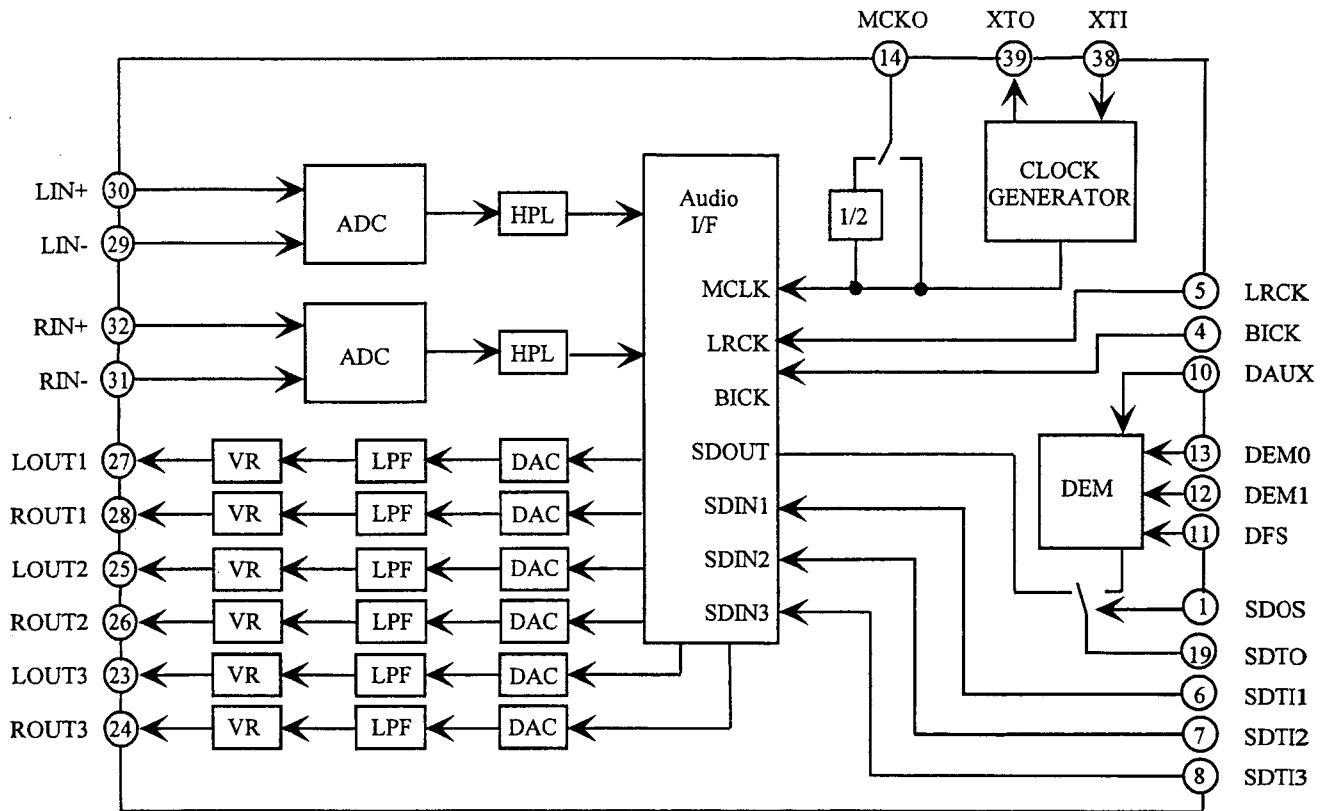
IC BLOCK DIAGRAMS AND DESCRIPTIONS

AK4110VF (DIR)

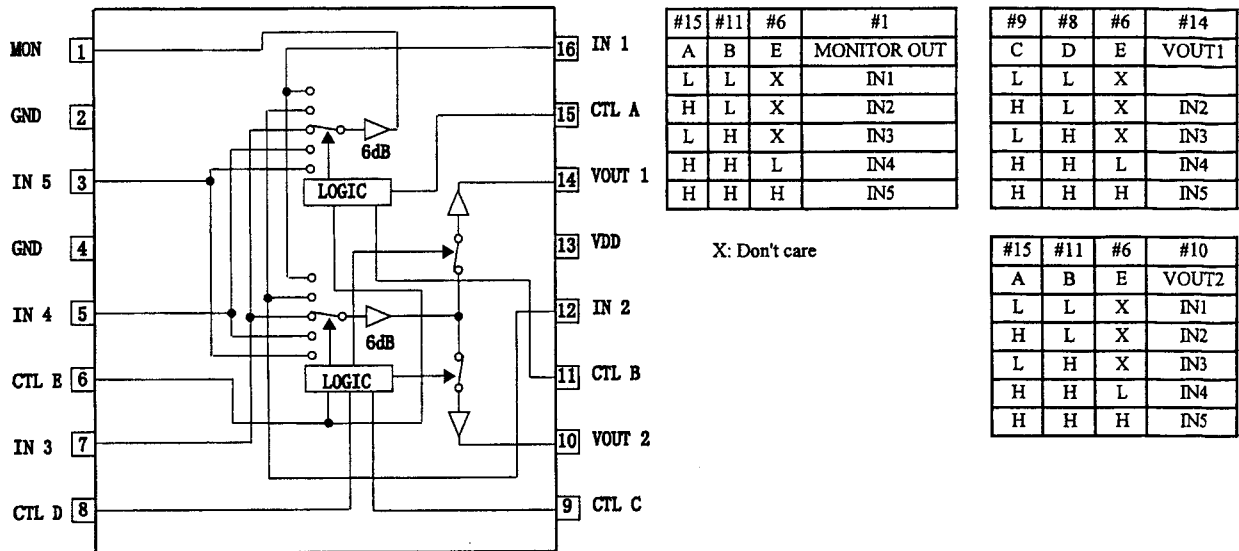
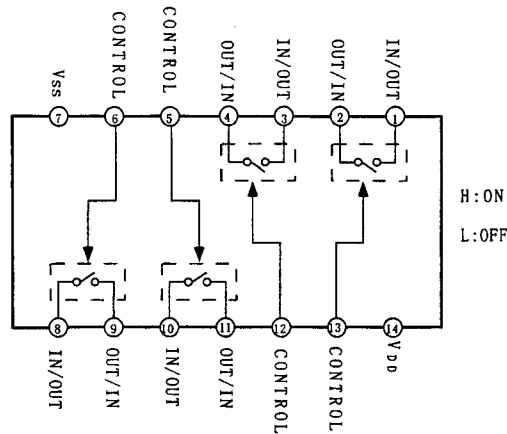
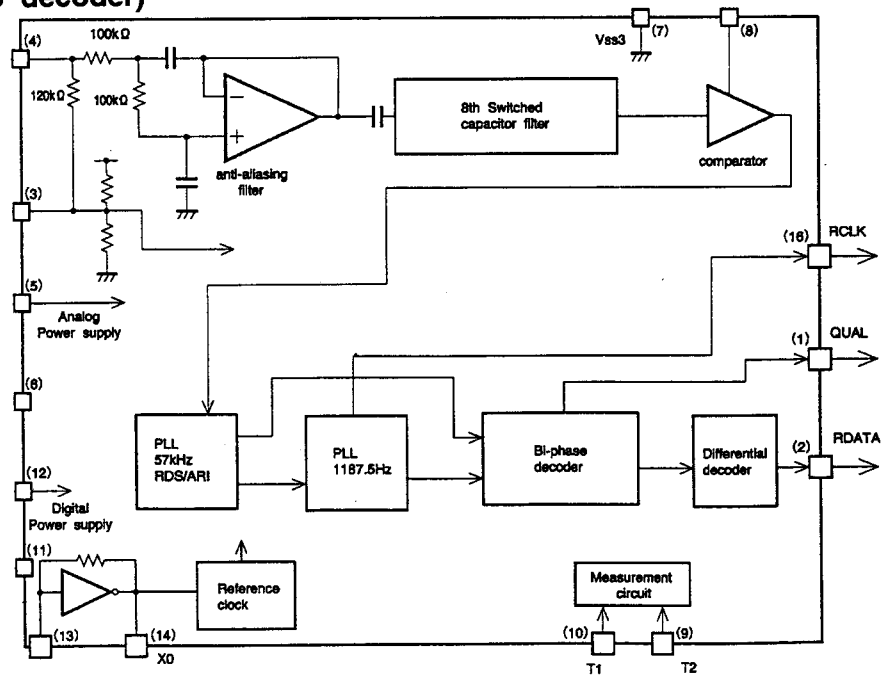


No.	Symbol	I/O	Function	No.	Symbol	I/O	Function
1	DVDD	-	Digital power supply pin	16	P/S	I	Fix to "L".
2	DVSS	-	Digital ground pin	17	FS96	O	96kHz sampling detect. "L": No detect, "H": Detect
3	TVDD	-	Digital power supply pin	18	ERF	O	Unlock & parity error output pin. "L": No error, "H": Error
4	TX	O	Validity flag output pin	19	LRCK	O	Output channel clock pin
5	XTI	I	Crystal input pin	20	ADTO	O	Audio serial data output pin
6	XTO	O	Crystal output pin	21	BICK	O	Audio serial data clock pin
7	R	-	External resistor pin	22	PD	I	Power- down mode pin. When "L", AK4110 is powered-down and reset..
8	DAUX	I	Fix to "L".	23	MCKO2	O	Master clock #2 output pin.
9	AVDD	-	Analog power supply pin	24	MCKO1	O	Master clock #1 output pin.
10	AVSS	-	Analog ground pin	25	CS	I	Chip select pin
11	RX1	I	Receiver channel 1	26	CCLK	I	Control data clock pin
12	RX2	I	Receiver channel 2	27	CDT1	I	Control data input pin
13	RX3	I	Receiver channel 3	28	CDTO	O	Control data output pin
14	RX4	I	Receiver channel 4				
15	AUTO	O	Non-PCM data detect pin. "L": No detect, "H": Detect				

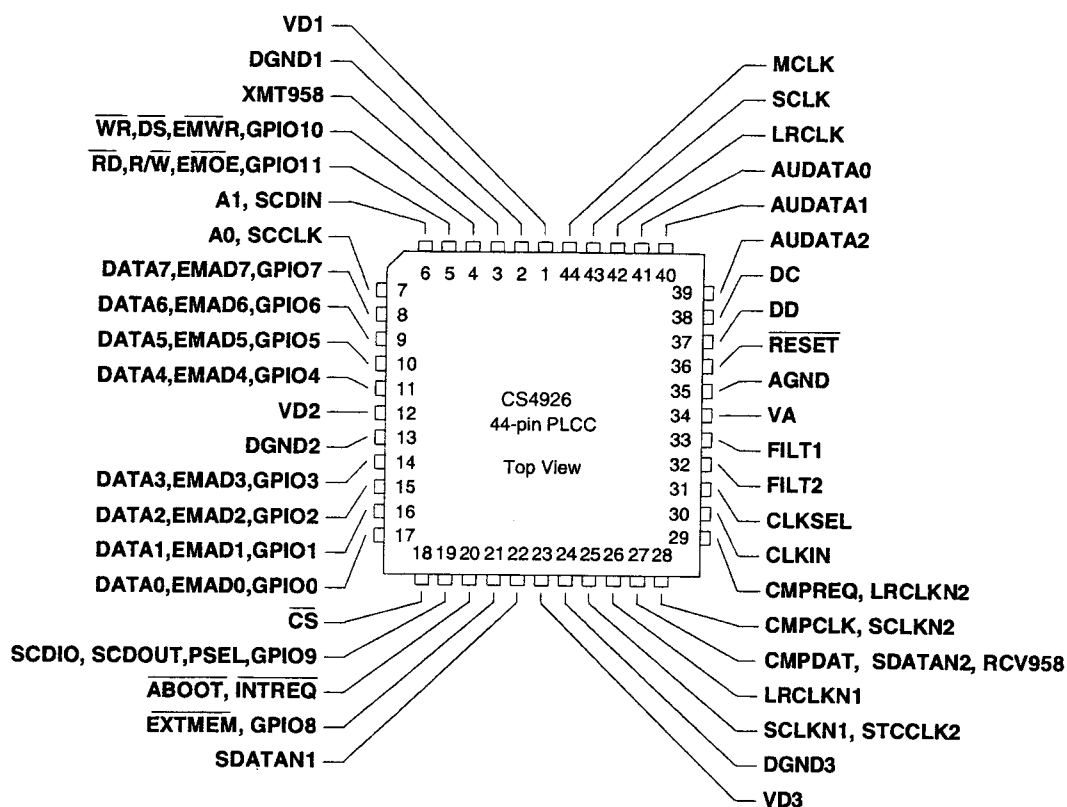
AK4526AVQ (20-bit, 6Channels A/D D/A Converter)



No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	SDSO	I	SDTO Source Select Pin "L": Internal ADC output, "H": DAUX input	22	CAD0	I	Chip address pin Used during the serial control mode.
2	OCKS	I	MCKO clock frequency select pin "L": MCLK, "H": MCLK/2	23	LOUT3	O	Lch #3 analog output pin
3	M/S	I	Audio data master/slave mode select pin "L": Slave mode, "H": Master mode	24	ROUT3	O	Rch #3 analog output pin
4	BICK	I/O	Audio serial data clock pin	25	LOUT2	O	Lch #2 analog output pin
5	LRCK	I/O	Input/output channel clock pin	26	ROUT2	O	Rch #2 analog output pin
6	SDTI1	I	DAC 1 audio serial data input pin	27	LOUT1	O	Lch #1 analog output pin
7	SDTI2	I	DAC 2 audio serial data input pin	28	ROUT1	O	Rch #1 analog output pin
8	SDTI3	I	DAC 3 audio serial data input pin	29	LIN-	I	Lch analog negative input pin
9	SDTO	O	Audio serial data output pin	30	LIN+	I	Lch analog positive input pin
10	DAUX	I	AUX audio serial data input pin	31	RIN-	I	Rch analog negative input pin
11	DFS	I	Double speed sampling mode pin "L": Normal speed, "H": Double speed, the ADC is powered down.	32	RIN+	I	Rch analog positive input pin
12	DEM1	I	De-emphasis pin	33	VREFL	I	Negative voltage reference input pin
13	DEM0	I	De-emphasis pin	34	VCOM	O	Common voltage output pin
14	MCKO	O	Master clock output pin	35	VREFH	I	Positive voltage reference input pin
15	DVDD	-	Digital power supply pin	36	AVDD	-	Analog power supply pin
16	DVSS	-	Digital ground pin	37	AVSS	-	Analog ground pin
17	PD	I	Power down and reset pin When "L", the AK4526A is powered-down and the control registers are reset to default state.	38	XTI	I	Crystal input pin
18	XTS	I	Crystal oscillator select/test mode pin "H": Crystal oscillator selected "L": External clock source selected	39	XTO	O	Crystal output pin
19	ICKSI	I	Input clock select pin 1		MCKI	I	External master clock input pin
20	ICKSO	I	Input clock select pin 2	40	P/S	I	Parallel/serial select pin "L": Serial control mode, "H": Parallel control mode
21	CAD1	I	Chip address pin Used during the serial control mode.	41	DIF0	I	Audio data interface format pin in parallel mode
					CS	I	Chip select pin in serial mode
				42	DIF1	I	Audio data interface format pin in parallel mode
					CCLK	I	Control data clock pin in serial mode
				43	LOOP0	I	Loopback mode pin in parallel mode
					CDTI	I	Control data input pin in serial mode
				44	LOOP1	I	Loopback mode pin in parallel mode
					CDTO	O	Control data output pin in serial mode

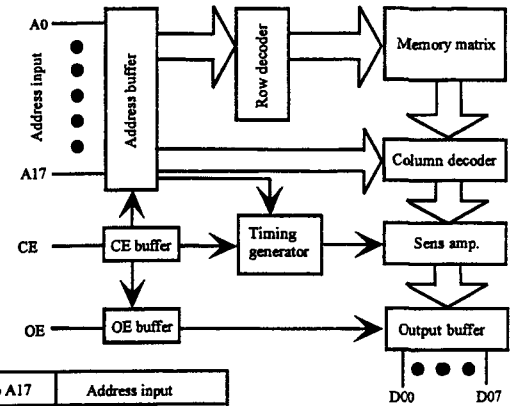
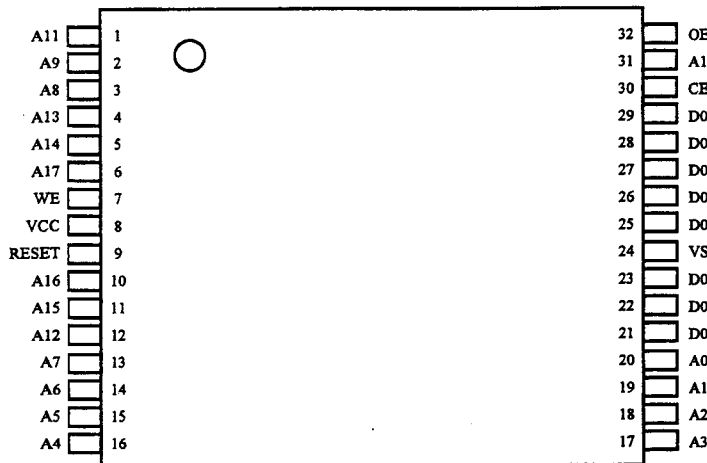
BA7626 (Video selector switch)**LC4966 (Analog switch)****BU1923 (RDS decoder)**

CS4926 (DSP)



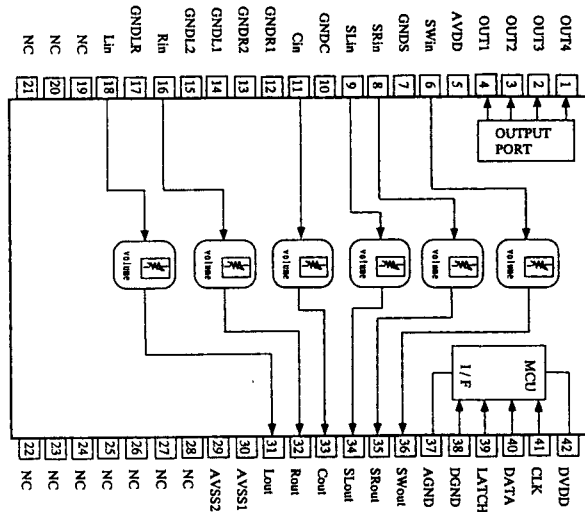
Pin No.	Symbol	Description	Pin No.	Symbol	Description
1	VD1	Digital positive supply	21	EXTMEM	External memory chip select or general purpose input & output number pin
2	DGND1	Digital supply ground	22	SDATAN1	PCM audio data input number one
3	XMT958	SPDIF transmitter output	23	VD3	Digital positive supply
4	\overline{WR} , \overline{DS}	Host write strobe or host data strobe or external memory write enable or general purpose input & output number 10.	24	DGND3	Digital supply ground
5	\overline{RD} , $\overline{R/W}$	Host parallel output enable or host parallel R/W or external memory output enable or general purpose input & output number 11.	25	SCLK1, STCLK2	PCM audio input bit clock
6	A1, SCDIN	Host address bit one or SPI serial control data input	26	LRCLKN1	PCM audio input sample rate clock
7	A0, SCCLK	Host parallel address bit zero or serial control port clock	27	AMPDAT, RCV 958, SDATAN2	PCM audio data input number two
8	DATA7	In parallel host mode, these pins provide a bi-directional data bus. If a serial host mode is selected, these pins can provide a multiplexed address and data bus for connecting an 8-bit external memory. Otherwise, in serial data host mode, these pins can act as general-purpose input or output pins that can be individually configured and controlled by this DSP.	28	CMPCLK, SCLKN2	PCM audio input bit clock
9	DATA6		29	CMPREQ, LRCLKN2	PCM audio input sample rate clock
10	DATA5		30	CLKIN	Master clock input pin
11	DATA4		31	CLKSEL	DSP clock select pin
12	VD2	Digital positive supply	32	FILT2	Connect to an external filter for phase-locked loop.
13	DGND2	Digital supply ground	33	FILT1	Connect to an external filter for phase-locked loop.
14	DATA3	In parallel host mode, these pins provide a bi-directional data bus. If a serial host mode is selected, these pins can provide a multiplexed address and data bus for connecting an 8-bit external memory. Otherwise, in serial data host mode, these pins can act as general-purpose input or output pins that can be individually configured and controlled by this DSP.	34	VA	Analog positive supply
15	DATA2		35	AGND	Analog supply ground
16	DATA1		36	RESET	Master reset input
17	DATA0		37	DD	These pins are reserved and should be pulled up with an external 4.7k resistor.
18	CS	Host parallel chip select, host serial SPI chip select pin	38	DC	
19	SCDIO, SCDOUT	Serial control port data input and output, parallel port type select pin	39	AUDATA2	Digital audio output 2
20	INTREQ, ABOOT	Control port interrupt request, automatic boot enable	40	AUDATA1	Digital audio output 1
			41	AUDATA0	Digital audio output 0
			42	LRCLK	Audio output sample rate clock
			43	SCLK	Audio output bit clock
			44	MCLK	Audio master clock

LC372100PT-K25-TLM (2 Meg Mask ROM)



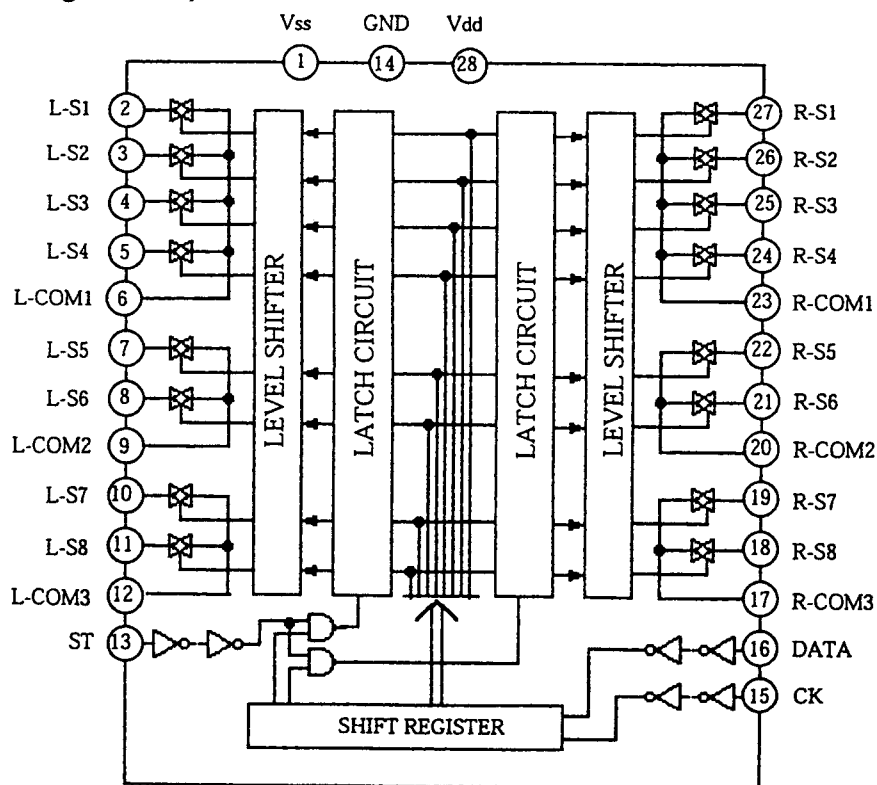
A0 to A17	Address input
D00 to D07	Data output
CE	Chip enable input
OE	Output enable input
VCC	Power supply
VSS	Ground

M62447SP (Electro volumes)

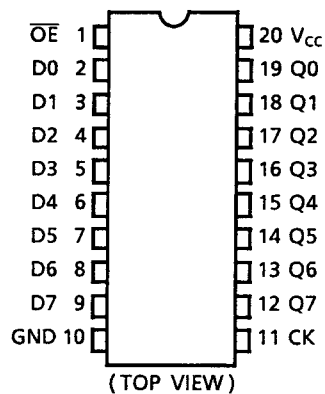


Pin No.	Symbol	Description	Pin No.	Symbol	Description
1	OUT4	Port outputs	32	ROUT	Volume outputs
2	OUT3		31	LOUT	
3	OUT2		19	NC	No connection
4	OUT1		20		
5	AVDD	Positive power supply (+7V)	21		
7	GNDS	Ground	22		
10	GNDL1		23		
12	GNDL2		24		
13	GNDL1		25		
14	GNDL2		26		
15	GNDL2		27		
17	GNDLR		28		
6	SWIN	Volume inputs	29	AVSS1	Negative power supply (-7V)
8	SRIN		30	AVSS2	
9	SLIN		37	AGND	Analog ground
11	CIN	Volume outputs	38	DGND	Digital ground
36	SWOUT		39	LATCH	Latch input
35	SROUT		40	DATA	Data input
34	SLOUT		41	CLK	Clock input
33	COUT	Volume inputs	42	DVDD	Digital power supply (+5V)
16	RIN				
18	LILN				

TC9164AF (Analog switch)

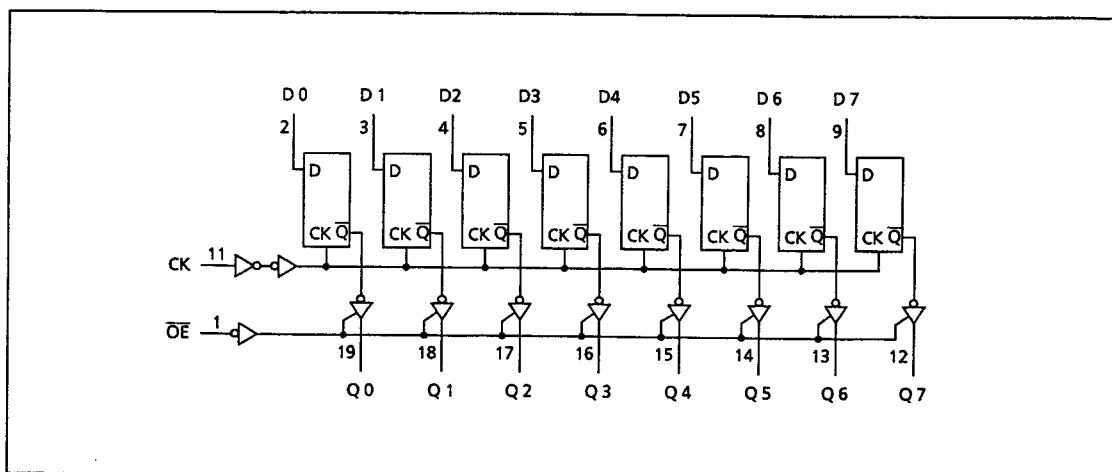


TC74VHC574FT (Octal D-type Flip Flop)

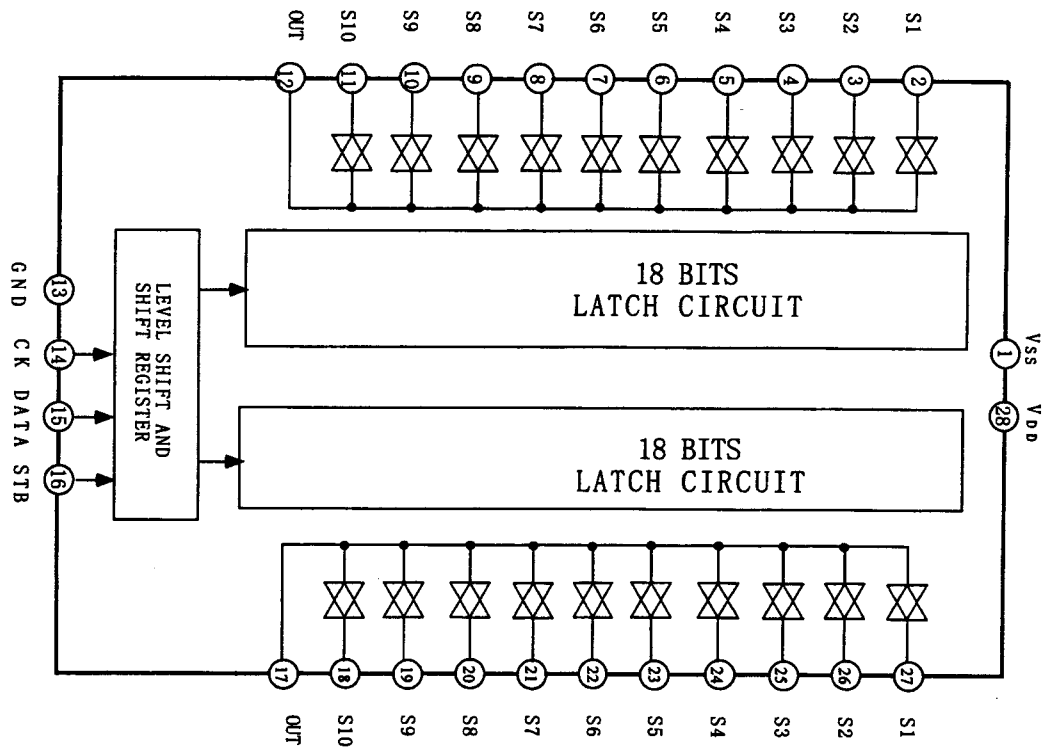


INPUTS			OUTPUT
OE	CK	D	
H	X	X	Z
L		X	Q _n
L		L	L
L		H	H

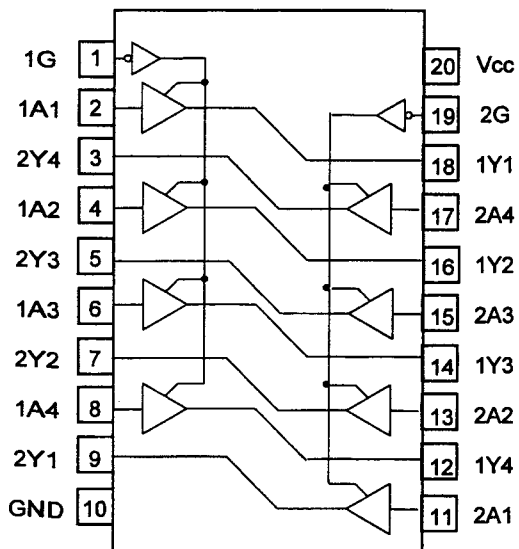
X : Don't Care
 Z : High impedance
 Q_n : No change



TC9273N-004 (Analog switch)

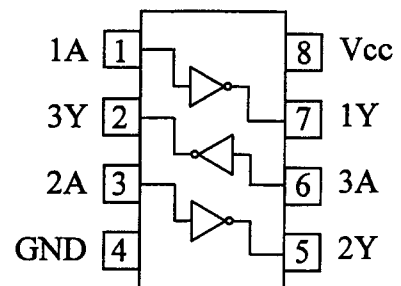


TC74VHC244FT (Buffer)



INPUTS		OUTPUT
G	A _n	Y _n
L	L	L
L	H	H
H	X	Z

TC7WU04F (3 Inverter)



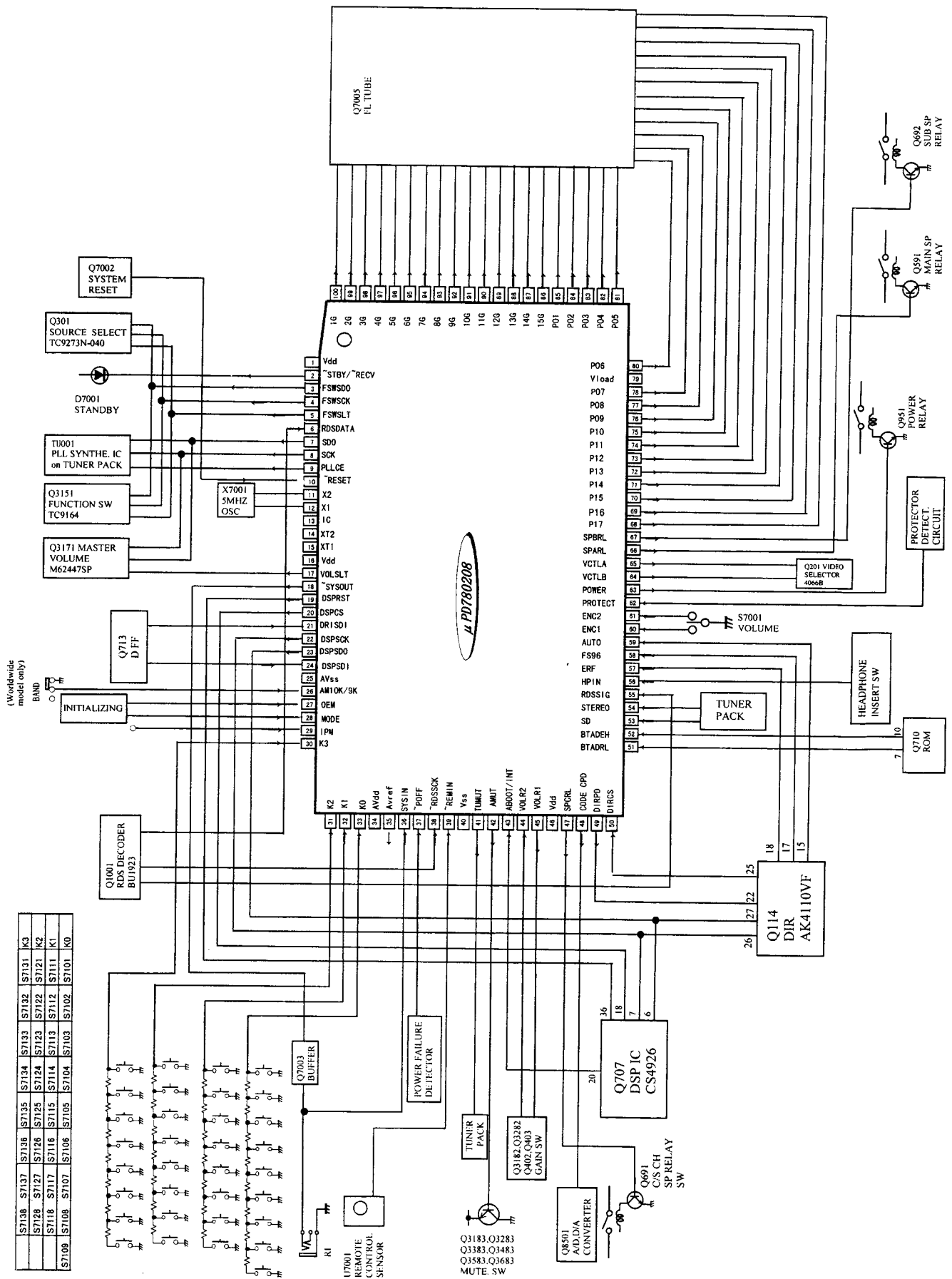
Truth Table

A	Y
L	H
H	L

MICROPROCESSOR CONNECTION DIAGRAM

(Worldwide model only)

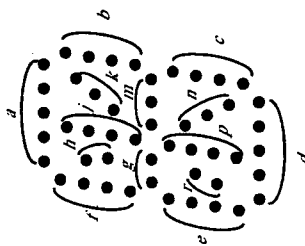
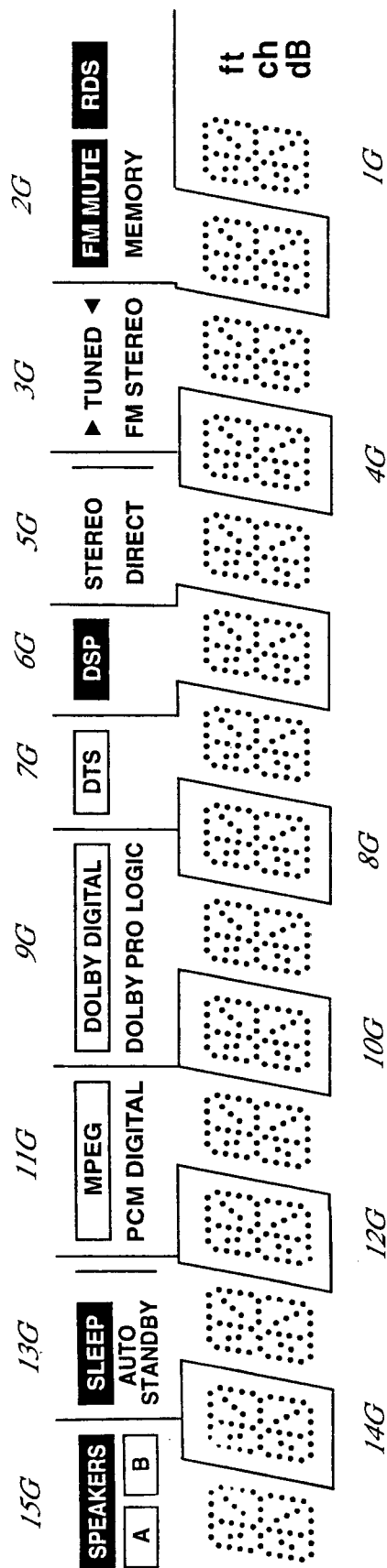
S7138	S7137	S7136	S7135	S7134	S7133	S7132	S7131	K3
S7128	S7127	S7126	S7125	S7124	S7123	S7122	S7121	K2
S7118	S7117	S7116	S7115	S7114	S7113	S7112	S7111	K1
S7109	S7108	S7107	S7106	S7105	S7104	S7103	S7102	K0



MICROPROCESSOR TERMINAL DESCRIPTION

No.	Symbol	I/O	Description	No.	Symbol	I/O	Description
1	V _{DD}	-	Power supply pin	39	REMIN	I	Signal input pin for remoter controller
2	STBY/RECV	0	Standby/Received indicator control output pin	40	AV _{SS}	-	ground pin
3	FSWSDO	0	Serial data output pin to function switch IC	41	TUMUT	0	Muting control signal output pin for tuner section
4	FSWSCK	0	Serial clock output pin to function switch IC	42	AMUT	0	Muting control signal output pin for amplifier section
5	FSWSLT	0	Serial latch output pin to function switch IC	43	ABOOT/INT	I/O	AUTOBOOT/INTREQ input/output pin
6	RDSDATA	1	Data input pin from RDS decoder	44	VOL _{RL2}	0	Control output pin for volume selector relay 2
7	SDO	0	Serial data output pin to PLL and Electro volume ICs.	45	VOL _{RL1}	0	Control output pin for volume selector relay 1
8	SCK	0	Serial clock output pin to PLL and Electro volume ICs	46	V _{DD}	-	Power supply pin
9	PLLCE	0	Serial data latch output pin to PLL IC	47	SPCRL	0	Speaker relay control output pin
10	RESET	1	System reset input pin	48	CODE CPD	0	Power down control output pin for CODEC IC
11	X2	0	Master clock connection pins.	49	DIRPD	0	Power down control output pin for AK4110
12	X1	1	Connect the ceramic oscillator across the both pins.	50	DIRCS	0	Chip select output pin for AK4110
13	IC	1	Internal connection pin.	51	BTADRH	0	Setting input pin for LSB address of boot ROM
14	XT2	0	Sub clock connection pins. Not used.	52	BTADRL	0	Setting input pin for MSB address of boot ROM
15	XT1	1	Not used.	53	SD	I	Broadcast detection input
16	V _{DD1}	-	Power supply pin	54	STEREO	I	FM stereo broadcast detection input pin
17	VOLSLT	0	Serial latch output pin to Electro volume IC	55	RDSSIG	I	Signal input pin from RDS decoder
18	SYSOUT	0	Signal output pin for system code	56	HPIN	I	Detection input pin when the headphones are inserted
19	DSPRST	0	Reset signal output pin to DSP IC CS4926	57	ERF	I	ERF signal input pin from AK4110
20	DSPCS	0	Chip select output pin to DSP IC	58	FS96	I	FS96 signal input pin from AK4110
21	DRISOI	1	Serial data input pin from the digital audio interface receiver IC AK4110	59	AUTO	I	AUTO signal input pin from AK4110
22	DSPSCK	0	Serial clock output pin to AK4110 and CS4926	60	ENC1	I	Rotary encoder input pin for volume control
23	DSPSDO	0	Serial data output pin to AK4110 and CS4926	61	ENC2	I	Rotary encoder input pin for volume control
24	DSPSDI	1	Serial data input pin from CS4926	62	PROTECT	I	Detection input pin for protection circuit
25	AV _{SS}	1	Ground pin for A/D converter	63	POWER	0	Control output pin for power switch relay
26	AM9K/10K	1	Initializing input pin for AM band step. 9 kHz step at "H"	64	VCTR _B	0	Control output pin for video selector switch
27	OEM	1	Initializing input pin for unit setting	65	VCTR _A	0	Control output pin for video selector switch
28	MODE	1	Initializing input pin for operation mode	66	SPARL	0	Control output pin for speaker relay A
29	IPM	1	IPM switch connection pin. Not used.	67	SPBRL	0	Control output pin for speaker relay B
30-33	K3-K0	1	Operation key connection pins.	68-79	P17-P07	0	Segment output pins
34	AV _{DD}	-	Power supply pin for A/D converter	79	VLOAD		Power supply pin for FL controller
35	AVREF	1	Reference voltage input pin for A/D converter	80-85	P06-P01	0	Segment output pins
36	SYSIN	1	System code input pin	86-100	15G-1G	0	Grid output pins
37	PQFF	1	Power failure detect input pin				
38	RDSSCK	1	Clock input pin from RDS decoder				

FL TUBE VIEW



	15G	14G	13G	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	SPEAKERS		SLEEP					DOLBY DIGITAL	DTS	DSP	STEREO DIRECT	TUNED	RDS	dB	
P2	A		AUTO STANDBY										FM MUTE	ch	
P3	B				PCM DIGITAL		DOLBY PRO LOGIC						FM STEREO	MEMORY	ft
P4	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
P5	h	h	h	h	h	h	h	h	h	h	h	h	h	h	h
P6	j	j	j	j	j	j	j	j	j	j	j	j	j	j	j
P7	k	k	k	k	k	k	k	k	k	k	k	k	k	k	k
P8	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b
P9	f	f	f	f	f	f	f	f	f	f	f	f	f	f	f
P10	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
P11	g	g	g	g	g	g	g	g	g	g	g	g	g	g	g
P12	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
P13	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e
P14	r	r	r	r	r	r	r	r	r	r	r	r	r	r	r
P15	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
P16	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
P17	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d

PRINTED CIRCUIT BOARD PARTS LIST

PRE., AMPLIFIER PC BOARD (NAVD-6566-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q203	22240373	BA7625
Q3171	22241296	M62447SP
Q3180,Q3181	22240247 or	BA15218N or
Q3281,Q3381	22240293	NJM4558L-D
Q3184	22240025	LC4966
Q3581	22240247 or	BA15218N or
	22240293	NJM4558L-D
	Transistors	
Q201,Q204	2213354 or	2SA933S-R or
	2212125	2SA1048-GR
Q202	2212286 or	2SC2878-B or
	2212285	2SC2878-A
Q205	2215830,	NP KRC105M,
	2213640 or	DTC123JS or
	2214660	RN1205
Q3182,Q3183	2213631 or	RN1241-A or
Q3282,Q3283	2213632	RN1241-B
Q3185	2215770,	NP KRA102M,
	2213510 or	DTA114ES or
	2214350	RN2202
Q3187	2215780,	NP KRA103M,
	2213580 or	RN2203 or
	2212600	DTA124ES
Q3186	2215960,	NP KRC102M,
	2213290 or	DTC114ES or
	2214230	RN1202
Q3188	221282,	DTC144ES,
	2213560 or	RN1204 or
	2215820	NP KRC104M
Q3383,Q3483	2213631 or	RN1241-A or
Q3583,Q3683	2213632	RN1241-B
Q3684	2213631 or	RN1241-A or
	2213632	RN1241-B
	Diodes	
D201,D202	223163 or	1SS133 or
D207,D208	223205	1SS270A
D3171	224470512	MTZJ5.1B
D3182	223163 or	1SS133 or
	223205	1SS270A
D3276,D3277	224470472	MTZJ4.7B
	Capacitors	
C201-C204	354780229	2.2 μ F,50V, Elect.
C205,C206	354724719	470 μ F,6.3V, Elect.
C210	354721019	100 μ F,6.3V, Elect.
C3171,C3271	354780229	2.2 μ F,50V, Elect.
C3173,C3175	354741009	10 μ F,16V, Elect.
C3177,C3186	354741009	10 μ F,16V, Elect.
C3187,C3287	374721534	0.015 μ F \pm 5%,50V,Plastic
C3189,C3195	354784709	47 μ F,50V, Elect.
C3192,C3193	354741009	10 μ F,16V, Elect.
C3194	354780479	4.7 μ F,50V, Elect.
C3196,C3296	354782209	22 μ F,50V, Elect.
C3286	354741009	10 μ F,16V, Elect.
C3289,C3295	354784709	47 μ F,50V, Elect.
C3371,C3471	354780229	2.2 μ F,50V, Elect.
C3381,C3481	354782209	22 μ F,50V, Elect.
C3384,C3484	354744709	47 μ F,16V, Elect.
C3571,C3671	354780229	2.2 μ F,50V, Elect.

NP : No spare parts

**NOTE: THE COMPONENTS IDENTIFIED BY MARK Δ ARE
CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK.
REPLACE ONLY WITH PART NUMBER SPECIFIED.**

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C3581,C3681	354782209	22 μ F,50V, Elect.
C3586,C3684	354744709	47 μ F,16V, Elect.
C3683	374724734	0.047 μ F \pm 5%,50V,Plastic
	Terminals	
P201	25045567	NPJ-1PDBL382
P202,P203	25045299	NPJ-3PDYE158
	Sockets	
P204	25051233	NSCT-8P1023
P205	25051527	NSCT-16P1314
P206	25051526	NSCT-4P1313
P391	2009990554UL	NSAS-16P0734
P601	2009990541UL	NSAS-10P0712

S TERMINAL PC BOARD (NAVD-6567-1B/1C/1D)
(Except 120V model)

This PC board is included to NAVD-6566.

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q2003,Q2004	22240373	BA7625
	Transistors	
Q2001,Q2002	2213354 or	2SA933S-R or
Q2005,Q2006	2212125	2SA1048-GR
	Diodes	
D2001,D2002	223163 or	1SS133 or
	223205	1SS270A
	Capacitors	
C2001-C2009	354780229	2.2 μ F,50V, Elect.
C2010,C2012	354724719	470 μ F,6.3V, Elect.
C2011	354780229	2.2 μ F,50V, Elect.
C2024	354741009	10 μ F,16V, Elect.
C2028,C2029	354722219	220 μ F,6.3V, Elect.
	Terminals	
P2001,P2002	25051568	NSCT-12P1355

PRIMARY CIRCUIT PC BOARD (NAPS-6570-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistor	
Q951	2215830, NP	KRC105M,
	2213640 or	DTC123JS or
	2214660	RN1205
	Diodes	
D952	22380260,	RL1N4003,
	22380032 or	1SR139-100 or
	22380035	GP104003E
D955	223163 or	1SS133 or
	223205	1SS270A
	Power transformer	
T902	2301258 or Δ	NPT-1294D or
	2301381 Δ	NPT-1358D <D>
	2301382 Δ	NPT-1358P <P/T/A>
	2301383 Δ	NPT-1358DG <W>
	Capacitors	
C902	3500196S Δ	RE275V-103M,IS
C952	354743319	330 μ F,16V, Elect.
	Resistor	
R901	431533355 Δ	3.3M Ω ,1/2W, Solid <D>
	Switch	
S902	25065437 Δ	NSS-22157P, Voltage<W>

NOTE: THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

CIRCUIT NO.	PART NO.	DESCRIPTION
Relay		
RL901	25065561, Δ	NRL-1P5A-DC12-127,
	25065508, Δ	NRL-1P10A-DC12-093,
	25065515 or Δ	NRL-1P5A-DC12-096 or
	25065526 Δ	NRL-1P5A-DC12-102
Fuses		
F911	252198 Δ	8A-UL Fuse <D/W>
F922	252077 or Δ	4A-SE-EAK or
	252243 Δ	4A-SE-TL250V Fuse <P/T/W/A>
F933	252075 or Δ	2.5A-SE-EAK or
	252241 Δ	2.5A-SE-TL250V Fuse <P/T>
Fuse holders		
F901,F902	25052133 Δ	NSCT-1P2031 <D/W>
F903,F904	25052133 Δ	NSCT-1P2031 <P/T/W/A>
F905,F906	25052133 Δ	NSCT-1P2031 <P>
AC outlet		
P903	25051126 Δ	NSCT-4P913 <D>
	25051125 Δ	NSCT-4P912 <P/T/W>
	25052115 Δ	NSCT-2P2013 <A>
Plug		
P901A	25055675 Δ	NPLG-2P631
Socket		
JL961B	25050267	NSCT-3P95

POWER SWITCH PC BOARD (NASW-6571-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
C901	3500196S Δ	RE275V-103M, IS capacitor
S901	25035550 Δ	NPS-111-L512P, Push switch

INPUT SWITCH PC BOARD (NAETC-6572-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q301	22240864	TC9273N-004
Q302	22240247 or	BA15218N or
	22240293	NJM4558L-D
Capacitors		
C315,C316	354741009	10 μ F, 16V, Elect.
C321,C322	354782209	22 μ F, 50V, Elect.
Terminals		
P301,P302	25045575 or	NPJ-4PDRW389 or
	25045303	NPJ-4PDBL162
P305	25045571 or	NPJ-6PDRW386 or
	25045300	NPJ-6PDBL159
Sockets		
P303	25051529	NSCT-18P1316
P304	25051526	NSCT-4P1313

DSP CIRCUIT PC BOARD (NADG-6575-1)

CIRCUIT NO.	PART NO.	DESCRIPTION
ICs		
Q101,Q102	22240581R1	NJM4565M
Q114	22241338R2	AK4110VF
Q701	22278033ENEC	MPC29M33HF
Q702	22241399R2	TC7WU04F
Q707	22241340R9	CS492604-CL
Q708,Q709	22274574ER2TO	TC74VHC574FT
Q710	22241339R2	LC372100PT-K25-TLM
Q713	22274244ER2TO	TC74VHC244FT
Q8501	22241341R3	AK4526A-VQ
Q8502-Q8504	22240581R1	NJM4565M

CIRCUIT NO.	PART NO.	DESCRIPTION
Diodes		
D101-D109	223234R2 or	1SS352 or
	223233R1	1SS355
Oscillators		
X103	3010320	AT-49 12.288MHz, Crystal
X701	3010278	CST12.2MTW040, Ceramic
Coils		
L108-L110	231237M022R2	NCH-1471
L166,L168	230921R2	BLM21B222SPT <D>
		To 15,100 p'cs.
	433123314R1	330 Ohm <D>
		From 15,101 p'cs.
L170,L171	230921R2	BLM21B222SPT
L703-L705	231237M022R2	NCH-1471
L8501,L8502	231237M022R2	NCH-1471
R8507,R8508	230921R2	BLM21B222SPT
Capacitors		
C101,C102	356741009R2	10 μ F, 16V, Elect.
C108	356741009R2	10 μ F, 16V, Elect.
C148,C158	356724709R2	47 μ F, 6.3V, Elect.
C701,C702	354724719S	470 μ F, 6.3V, Elect.
C703,C704	356721019R2	100 μ F, 6.3V, Elect.
C716,C718	356724709R2	47 μ F, 6.3V, Elect.
C8501,C8504	356721019R2	100 μ F, 6.3V, Elect.
C8507	356721019R2	100 μ F, 6.3V, Elect.
C8509-C8514	356741009R2	10 μ F, 16V, Elect.
Sockets		
P7004B	25052049,	NSCT-40P1836,
	25050980,	NSCT-40P767,
	25051306,	NSCT-40P1095,
	25051847 or	NSCT-40P1634 or
	25052236	NSCT-40P2133
P7205A	2009990542UL	NSAS-12P0713
DISPLAY CIRCUIT PC BOARD		
(NADIS-6576-1A/1B/1C/1D)		
CIRCUIT NO.	PART NO.	DESCRIPTION
FL tube		
Q7005	212198	15-BT-64GNK
ICs		
Q1001	22241297R2	BU1923F <P>
Q401	22240581R1	NJM4565M
Q7001	22241398	MPD780208GF-047-3BA
Refer to Caution 1 on page 22.		
Remote sensor		
U7001	241330	PIC-26043TE2
Transistors		
Q402,Q403	2215410R2	RN1441
Q7002	2214490R2	RN1404
Q7003,Q7004	2214540R2	RN2403
Diodes		
D1001	223234R2 or	1SS352 or
	223233R1	1SS355 <P>
D7001	225290	SEL4110R
D7002,D7003	223234R2 or	1SS352 or
D7005-D7008	223233R1	1SS355
D7004	224490560R2	UDZ5.6B
D7009	224490910R2	UDZ9.1B
D7010	223234R2 or	1SS352 or
	223233R1	1SS355

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Oscillators			Diodes	
X1001	3010203	AF6146CG,Crystal <P>	D939	224492700R2	UDZ27B
X7001	3010242	CST5.00MGW,Ceramic	D942,D943	224490750R2	UDZ7.5B
	Coils			Capacitors	
L7001-L7003	231237K220R2	NCH-1477	C267,C268	354741009	10 μ F,16V, Elect.
	Capacitors		C269,C270	354721019	100 μ F,6.3V, Elect.
C1001	355780229	2.2 μ F,50V, Elect.	C273,C274	374728224	8200pF \pm 5%,50V,Plastic
C1003	355721019	100 μ F,6.3V, Elect.	C275,C276	374721824	1800pF \pm 5%,50V,Plastic
C401,C402	355744709	47 μ F,16V, Elect.	C277,C278	354744709	47 μ F,16V, Elect.
C407,C408	355741009	10 μ F,16V, Elect.	C281	354741009	10 μ F,16V, Elect.
C7001	355780229	2.2 μ F,50V, Elect.	C282,C284	354780339	3.3 μ F,50V, Elect.
C7002	3000078	DX-5R5L104,Super	C3151,C3152	354741009	10 μ F,16V, Elect.
C7004,C7005	355721019	100 μ F,6.3V, Elect.	C923	3504213S	4700 μ F,35V, Elect.
C7008	355721019	100 μ F,6.3V, Elect.	C924	354761029S	1000 μ F,35V, Elect.
C7009,C7010	355780109	1 μ F,50V, Elect.	C927,C928	354741009	10 μ F,16V, Elect.
C7014	355780109	1 μ F,50V, Elect.	C933	354742229S	2200 μ F,16V, Elect.
C7015	355741009	10 μ F,16V, Elect.	C935	354741009	10 μ F,16V, Elect.
C7018,C7019	355721019	100 μ F,6.3V, Elect.	C936	354762219	220 μ F,35V, Elect.
	Switches		C937	354772219S	220 μ F,63V, Elect.
S7101-S7109	25035652	NPS-111-S604	C942,C943	354741009	10 μ F,16V, Elect.
S7111-S7118	25035652	NPS-111-S604	C944,C945	354744709	47 μ F,16V, Elect.
S7121-S7128	25035652	NPS-111-S604		Resistors	
S7131-S7138	25035652	NPS-111-S604	R921-R925	453532294	0.22 Ω \pm 5%,1/2W,Metal
	Plug		R926,R927	452630564F	5.6 Ω \pm 5%,1W,Metal
JL701B	25055624	NPLG-3P586	R929	441623304F	33 Ω \pm 5%,1W,Metal oxide
	Sockets		R932	452530224F	2.2 Ω \pm 5%,1/2W,Metal
JL702A	25051090	NSCT-6P877	R933	452630224F	2.2 Ω \pm 5%,1W,Metal
P7001A	25052086 or	NSCT-40P1873 or	R934	442522204F	22 Ω \pm 5%,1/2W,Metal oxide
P7004A	25052273	NSCT-40P2170	R937	452630334F	3.3 Ω \pm 5%,1W,Metal
	Holder		R938,R939	443523314	330 Ω \pm 5%,1/2W,Metal oxide
Q7005A	27191074	(FL)		Terminal	
			P261	25045303 or	NPJ-4PDBL162 or
				25045575	NPJ-4PDRW389
				Plugs	
			P204A	25055704	NPLG-8P660
			P205A	25055805	NPLG-16P761
			P206A,P304A	25055804	NPLG-4P760
			P242A	25055995	NPLG-9P947
			P303A	25055807	NPLG-18P763
				Sockets	
			JL911A	25051111	NSCT-7P898
			JL961A	25051107	NSCT-3P894
			P101	25052024,	NSCT-15P1811,
				25050955,	NSCT-15P742,
				25051281,	NSCT-15P1070,
				25051822 or	NSCT-15P1609 or
				25052211	NSCT-15P2108
			P242	200A2281810UL	NSAS-18P0731
			P520	25052138	NSCT-7P2036
			P7001B	25052049 or	NSCT-40P1836 or
				25052236	NSCT-40P2133
				Pan head screws	
			Q921B,Q922B	82143010	3P+10FN(BC)
			Q933B,Q934B	82143010	3P+10FN(BC)
				Heat sinks	
			Q921A	27160179	
			Q922A	27160229	
			Q933A	27160209	

MAIN PC BOARD (NAAR-6577-1A/1B/1C/1D)

CIRCUIT NO. PART NO. DESCRIPTION

	ICs	
Q251	222780053	78L05
Q261	22240581R1	NJM4565M
Q3151	22241221R2	TC9164AF
Q921	222780125	78M12HF
Q922	222790125	79M12HF
Q931	222780565JRC	NJM78M56FA
Q933,Q934	222780055	78M05HF
	Transistors	
Q244	2213510,	DTA114ES,
	2215770 or	NP KRA102M or
	2214350	RN2202
Q245,Q246	2215024	2SD1468S-R
Q247	2215864,	NP KTC3199-GR,
	2212115 or	2SC2458-GR or
	2213284	2SC1740S-R <P>
Q932	2211455	2SA1015-GR
	Diodes	
D203,D204	224490620R2	UDZ6.2B
D901	22380285F or	RS403M or
	22380022F	RBV402
D931	224490620R2	UDZ6.2B
D932	223234R2 or	1SS352 or
	223233R1	1SS355
D933-D938	22380260,	RL1N4003,
D940,D941	22380032 or	1SR139-100 or
	22380035	GP104003E

CAUTION: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

DIGITAL INPUT PC BOARD(NADG-6578-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
U7201	24120037	TORX178A, Photo coupler
Q7201	222740046R2TO	TC74HCU04F, IC
L7202, L7203	231237M022R2	NCH-1471, Coil
C7203	354721019	100 μ F, 6.3V, Elect. Capacitor
P7201	25045504	NPJ-1PDBL319, RI
P7202, P7203	25045473	NPJ-1PDBL291, Coacial
P7205B	25055136	NPLG-6P120, Plug
P7206	2009990540UL	NSAS-4P0711, Socket
S7201	25065286	NSS-22112, Switch <W>

HEADPHONE TERMINAL PC BOARD (NAETC-6579-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
JL702B	25051090	NSCT-6P877, Socket
P504B	25055445	NPLG-7P427, Plug
P7003	25045514	YKB26-5005, Headphone

TONE CONTROL PC BOARD (NAETC-6580-1A/1B/1C/1D)

CIRCUIT NO.	PART NO.	DESCRIPTION
Capacitors		
C391, C392	374721534	0.015 μ F \pm 5%, 50V, Plastic
Resistors		
R391, R392	5104356	N14RLC100KWT20Z, Variable
Plug		
P391A	25055139	NPLG-9P123

VOLUME CONTROL PC BOARD

(NAETC-6581-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
S7001	25065575	EC16B2425, Rotary encoder
JL701A	25051087	NSCT-3P874, Socket

FRONT CHANNEL POWER AMPLIFIER PC BOARD (NAAF-6583-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
Transistors		
Q501-Q504	2211732,	* 2SC1845-F,
	2211733,	* 2SC1845-E,
	2210755 or	* 2SC1775A-E or
	2210756	* 2SC1775A-F
Q505, Q506	2211732,	2SC1845-F,
Q527, Q528	2211733,	2SC1845-E,
Q581, Q582	2210755 or	2SC1775A-E or
	2210756	2SC1775A-F
Q507-Q510	2215843 or	NP KTA1024-O or
	2211353	2SA949-O
Q513, Q514	2215853 or	NP KTC3206-O or
	2211633	2SC2229-O
Q517, Q518	2212654 or	2SC3421-Y or
	2212653	2SC3421-O
Q519, Q520	2203010	2SC5171
Q521, Q522	2203000	2SA1930
Q523, Q524	2203063,	* 2SC5198-O,
	2202523,	* 2SC4468-O,
	2202524,	* 2SC4468-Y,
	2202526 or	* 2SC4468-P or
	2203062	* 2SC5198-R
	2211792 or	2SA992-F or
Q583	2211793	2SA992-E

CIRCUIT NO. PART NO. DESCRIPTION

Transistors		
Q525, Q526	2203053,	* 2SA1941-O,
	2202513,	* 2SA1695-O,
	2202514,	* 2SA1695-Y,
	2202516 or	* 2SA1695-P or
Q529, Q530	2203052	* 2SA1941-R, Transistor
	2215864,	NP KTC3199-GR,
	2212115 or	2SC2458-GR or
	2213284	2SC1740S-R
Q591	2215830,	NP KRC105M,
	2213640 or	DTC123JS or
	2214660	RN1205
Diodes		
D511, D512	223163 or	1SS133 or
	223205	1SS270A
D571	224470512	MTZJ5.1B
D910	22380038 or	RBV602 or
	22380274	RS603M, Diode
Coils		
L501, L502	231176	S-1.3C
Capacitors		
C501, C502	354784709	47 μ F, 50V, Elect.
C503, C504	374721015	100pF \pm 10%, 50V, Plastic
C505, C506	354742219	220 μ F, 16V, Elect.
C507-C510	354781009	10 μ F, 50V, Elect.
C517, C518	374724734	0.047 μ F \pm 5%, 50V, Plastic
C519, C520	374721044	0.1 μ F \pm 5%, 50V, Plastic
C521, C522	354744709	47 μ F, 16V, Elect.
C525, C526	354771019	100 μ F, 6.3V, Elect.
C535, C536	374721034	0.01 μ F \pm 5%, 50V, Plastic
		<P/T/W/A>
C581	354721019	100 μ F, 6.3V, Elect.
C583	354780109	1 μ F, 50V, Elect.
C905, C906	374731044	0.1 μ F \pm 5%, 100V, Plastic
C915, C916	3504351	10000 μ F, 56V, Elect.
Resistors		
R521-R524	443528204	82 Ω \pm 5%, 1/2W, Metal oxide
R525, R526	443526804	68 Ω \pm 5%, 1/2W, Metal oxide
R527, R528	443528204	82 Ω \pm 5%, 1/2W, Metal oxide
R529, R530	443525604	56 Ω \pm 5%, 1/2W, Metal oxide
R539, R542	453530224	2.2 Ω \pm 5%, 1/2W, Metal
R543, R544	443522214	220 Ω \pm 5%, 1/2W, Metal oxide
R547, R548	4000132 or	RGC55 0.22 or
	4500245	BPR55FK0.22, Metal plate
R555, R556	453630824	8.2 Ω \pm 5%, 1W, Metal
R557, R558	443623914	390 Ω \pm 5%, 1W, Metal oxide
R573, R574	5210259	N06HR2KBC, Trimming
R591, R592	4500171F	2.2 Ω \pm 5%, 1/4W, Metal
Plugs		
P511, P512	25055038	NPLG-2P29
P520A	25055913	NPLG-7P866
Sockets		
P504	2002381460UL	NSAS-14P0710
JL902B	25050269	NSCT-5P97
JL903A	25051108	NSCT-4P895
JL501A	25051110	NSCT-6P897
JL901A	25051111	NSCT-7P898
JL503A	25051112	NSCT-8P899

POWER AMPLIFIER PC BOARD (NAAF-6584-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q1501,Q1502	2211732,	2SC1845-F,
Q601-Q604	2211733,	2SC1845-E,
	2210755 or	2SC1775A-E or
	2210756	2SC1775A-F
Q1503	2211732,	2SC1845-F,
Q1514	2211733,	2SC1845-E,
	2210755 or	2SC1775A-E or
	2210756	2SC1775A-F
Q1504-Q1507	2215843 or	NP KTA1024-O or
	2211353	2SA949-O
Q1508	2215853 or	NP KTC3206-O or
	2211633	2SC2229-O
Q1509	2212653 or	2SC3421-O or
	2212654	2SC3421-Y
Q1510	2203010	2SC5171
Q1511	2203000	2SA1930
Q1512	2203063,	* 2SC5198-O,
Q623,Q624	2202523,	* 2SC4468-O,
	2202524,	* 2SC4468-Y,
	2202526 or	* 2SC4468-P or
	2203062	* 2SC5198-R
Q1513	2203053,	* 2SA1941-O,
Q625,Q626	2202513,	* 2SA1695-O,
	2202514,	* 2SA1695-Y,
	2202516 or	* 2SA1695-P or
	2203052	* 2SA1941-R
Q1515	2215864,	NP KTC3199-GR,
	2212115 or	2SC2458-GR or
	2213284	2SC1740S-R
Q609,Q610	2211732,	2SC1845-F,
Q627,Q628	2211733,	2SC1845-E,
	2210755 or	2SC1775A-E or
	2210756	2SC1775A-F
Q605,Q606	2215843 or	NP KTA1024-O or
Q613,Q614	2211353	2SA949-O
Q611,Q612	2215864,	KTC3199-GR,
	2212115 or	2SC2458-GR or
	2213284	2SC1740S-R
Q615,Q616	2212653 or	2SC3421-O or
	2212654	2SC3421-Y
Q617,Q618	2215853 or	NP KTC3206-O or
	2211633	2SC2229-O
Q619,Q620	2203010	2SC5171
Q621,Q622	2203000	2SA1930
Q629,Q630	2215843 or	NP KTA1024-O or
	2211353	2SA949-O
Q691,Q692	2215830,	NP KRC105M,
	2213640 or	DTC123JS or
	2214660	RN1205
	Diodes	
D1501,D1506	223163 or	1SS133 or
D607,D608	223205	1SS270A
D691,D692	223163 or	1SS133 or
	223205	1SS270A
	Coils	
L1501	231176	S-1.3C
L601,L602	231176	S-1.3C

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C1501	354784709	47 μ F,50V, Elect.
C1502	374721015	100pF \pm 10%,50V,Plastic
C1503	354742219	220 μ F,16V, Elect.
C1504,C1505	354781009	10 μ F,50V, Elect.
C1510	374724734	0.047 μ F \pm 5%,50V,Plastic
C1511	374721044	0.1 μ F \pm 5%,50V,Plastic
C1512	354744709	47 μ F,16V, Elect.
C1526	374721034	0.01 μ F \pm 5%,50V,Plastic
		<P/T/W/A>
C1530	354780109	1 μ F,50V, Elect.
C1533,C1534	354771009	10 μ F,63V, Elect.
C1535	374721024	1000pF \pm 5%,50V,Plastic
		<P/T/W/A>
C601,C602	354784709	47 μ F,50V, Elect.
C603,C604	374721015	100pF \pm 10%,50V,Plastic
C605,C606	354744709	47 μ F,16V, Elect.
C607,C608	354742219	220 μ F,16V, Elect.
C615,C616	354781009	10 μ F,50V, Elect.
C619,C620	354781009	10 μ F,50V, Elect.
C621,C622	374724734	0.047 μ F \pm 5%,50V,Plastic
C623,C624	374721044	0.1 μ F \pm 5%,50V,Plastic
C625,C626	374721034	0.01 μ F \pm 5%,50V,Plastic
		<P/T/W/A>
C627,C628	354772219S	220 μ F,63V, Elect.
C631-C634	354774709	47 μ F,63V, Elect.
C639,C640	354780109	1 μ F,50V, Elect.
C641,C642	374721024	1000pF \pm 5%,50V,Plastic
		<P/T/W/A>
C681	354781009	10 μ F,50V, Elect.
	Resistors	
R1512,R1513	443528204	82 Ω \pm 5%,1/2W,Metal oxide
R1515	443526804	68 Ω \pm 5%,1/2W,Metal oxide
R1516	443528204	82 Ω \pm 5%,1/2W,Metal oxide
R1517	443525604	56 Ω \pm 5%,1/2W,Metal oxide
R1519	443522214	220 Ω \pm 5%,1/2W,Metal oxide
R1522,R1523	453530224	2.2 Ω \pm 5%,1/2W,Metal
R1524	4500245 or	BPR55FK0.22 or
	4000132	RGC55 0.22,Metal plate
R1529	453630824	8.2 Ω \pm 5%,1W,Metal
R1532	5210288	N06HR2.2KBE,Trimming
R1534,R1535	4500159F	0.22 Ω \pm 5%,1/4W,Metal
R623-R626	443528204	82 Ω \pm 5%,1/2W,Metal oxide
R629,R630	443525604	56 Ω \pm 5%,1/2W,Metal oxide
R633,R634	443526804	68 Ω \pm 5%,1/2W,Metal oxide
R635,R636	443528204	82 Ω \pm 5%,1/2W,Metal oxide
R641,R642	443522214	220 Ω \pm 5%,1/2W,Metal oxide
R643-R646	453530224	2.2 Ω \pm 5%,1/2W,Metal
R647,R648	4500245 or	BPR55FK0.22 or
	4000132	RGC55 0.22,Metal plate
R655,R656	453630824	8.2 Ω \pm 5%,1W,Metal
R659,R660	4500268	2.2 Ω \pm 5%,1/2W,Metal
R673,R674	5210288	N06HR2.2KBE,Trimming
R675-R678	4500159F	0.22 Ω \pm 5%,1/4W,Metal
	Relays	
RL1501	25065574	NRL-1P5A-DC24-134
RL601,RL602	25065563,	NRL-2P5A-DC24-129,
	25065510 or	NRL-2P5A-DC24-095 or
	25065517	NRL-2P5A-DC24-098

CIRCUIT NO.	PART NO.	DESCRIPTION
	Plugs	
P1511	25055038	NPLG-2P29
P611,P612	25055038	NPLG-2P29
P601A	25055236	NPLG-5P220
	Sockets	
JL903B	25050268	NSCT-4P96
JL902A	25051109	NSCT-5P896
JL501B	25050283	NSCT-6P111
	Terminal	
P603	25060290	NTM-8PDML221

SPEAKER TERMINAL PC BOARD (NAETC-6588-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Diode	
D591	223163 or 223205	1SS133 or 1SS270A
	Capacitors	
C561,C562	374721034	0.01 μ F \pm 5%,50V, Plastic <P/T/W>
C565,C566	374721024	1000pF \pm 5%,50V Plastic <P/T/W>
	Relay	
RL501	25065563, 25065510 or 25065517	NRL-2P5A-DC24-129, NRL-2P5A-DC24-095 or NRL-2P5A-DC24-098
	Sockets	
JL503B	25051112	NSCT-8P899
P502	200B010420UL	NSAS-4P0717
	Terminal	
P501	25060291	NTM-6PDMN222

MULTI-CHANNEL INPUT TERMINAL (NAAF-6589-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q241-Q243	22240247 or 22240293	BA15218N or NJM4558L-D
	Capacitors	
C248,C249	354741009	10 μ F,16V, Elect.
	Terminal	
P241	25045572	NPJ-6PDBRW387
	Plug	
P242A	25055995	NPLG-9P947

SECONDARY CIRCUIT PC BOARD (NAETC-6590-1A/1B)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C992	374731044	0.1 μ F \pm 5%,100V,Plastic
C993,C994	374721044	0.1 μ F \pm 5%,50V,Plastic
	Resistors	
R991,R992	453530104	1 Ω \pm 5%,1/2W,Metal
R993	4500229	0.1 Ω \pm 5%,1/4W,Metal
	Sockets	
JL901B	25051111	NSCT-7P898
JL911B	25050284	NSCT-7P112

NOTE: <D>:120V model only
 <P>:European model only
 <T>:Asian model only
 <W>:Worldwide model only
 <A>:Australian model only

CAUTION 1

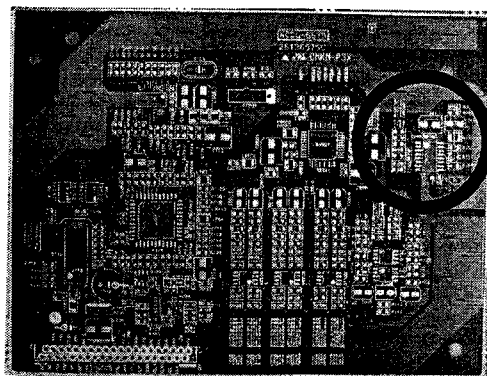
Replacing the microprocessor Q7001

This unit is used the microprocessor of two types.

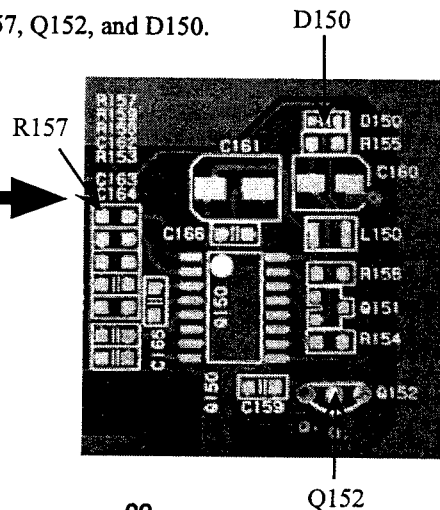
(MPD780208GF-047-3BA or MPD780208GF-045-BA)

When you replace the microprocessor MPD780208GF-045-BA,
 use the microprocessor MPD780208GF-047-3BA instead of it.

At the same time you are necessary to remove R157, Q152, and D150.



NADG-6575



ADJUSTMENT PROCEDURES AND CONFIRMATION

1. Idling current adjustment

Before Idling adjustment, turn the trimming resistors R573, R574, R673, R674 and R1532 to counter clockwise. Connect the DC voltmeter to sockets P511, P512, P611, P612 and P1511.

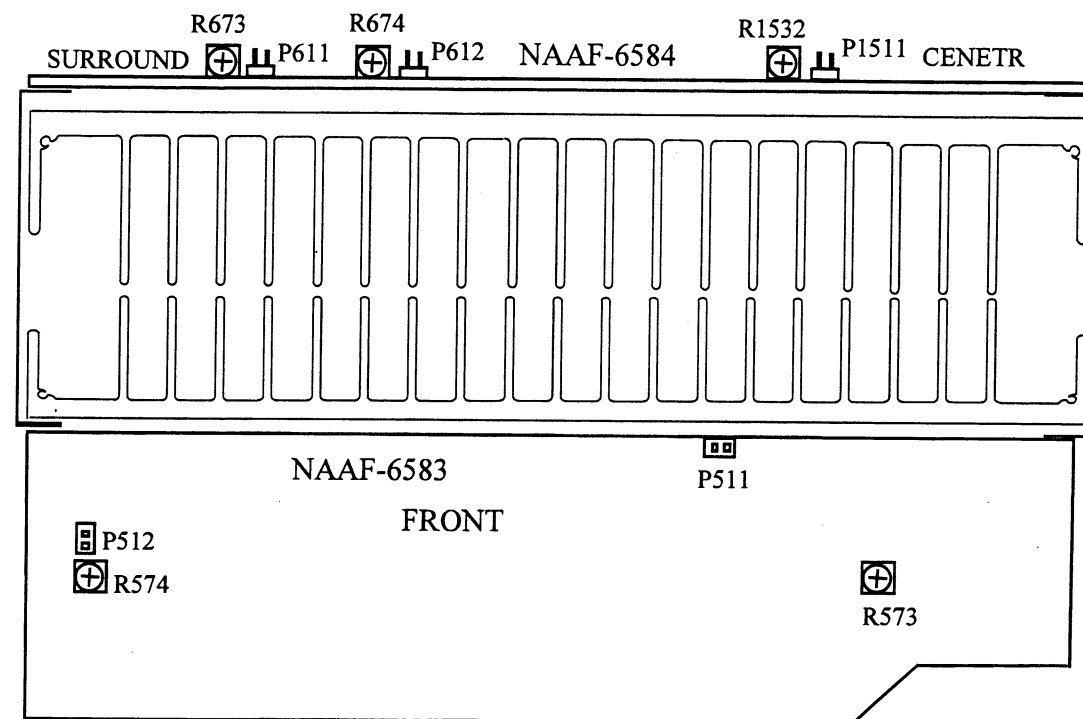
After turn POWER to ON, adjust the trimming resistors R573, R574, R673, R674 and R1532 so that the reading of voltmeter becomes $2.5 \pm 0.2\text{mV}$.

After adjustment, attach the top cover.

Confirm the voltage of above points after five minutes.

Readjust the above resistors so that the voltage becomes $6.5 \pm 0.2\text{mV}$.

Note: No load and No signal



Confirmation of protection circuit

1. Confirmation of operation of speaker relay

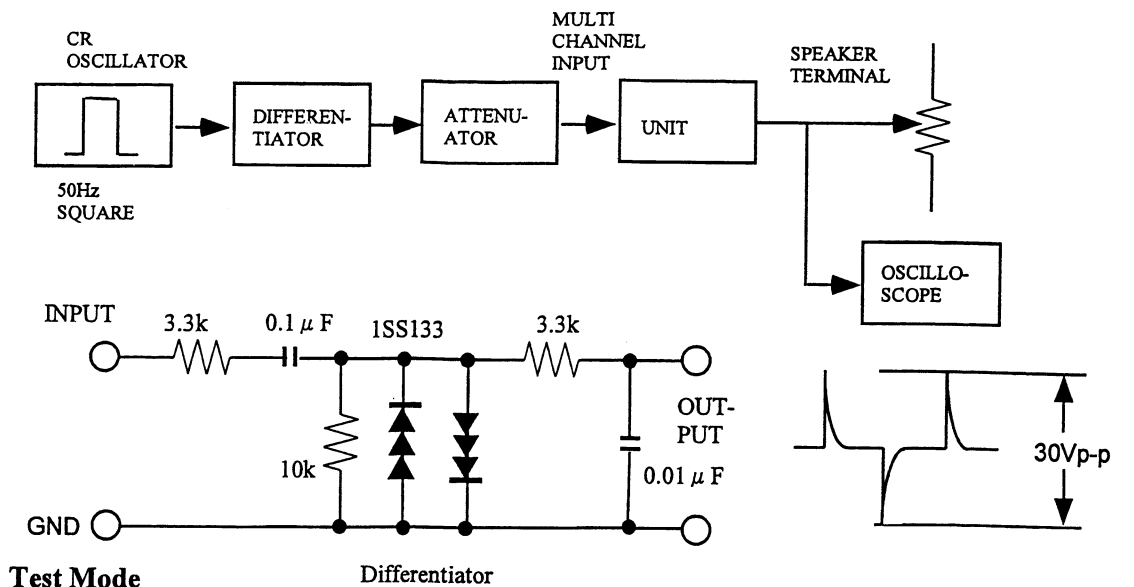
Confirm that the speaker relay turns ON approximate. 5 seconds after the power switch is turned ON. Confirm that the speaker relay turns OFF immediately after the power switch is turned OFF.

2. Confirmation of DC detection circuit

Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time. During "TEST-" on the FL tube is displayed, press DVD button. Next, press CD button. (Refer to Test mode.) Apply DC 1.5~3V to MULTI CHANNEL INPUT terminals with no load. Confirm that the speaker relay turns OFF. Apply DC -1.5~-3V to MULTI CHANNEL INPUT terminals with no load. Confirm that the speaker relay turns OFF.

3. Confirmation of Current detection circuit

Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time. During "TEST-" on the FL tube is displayed, press DVD button. Next, press CD button. Connect Differentiator and apply the 50Hz square signal to the terminal of MULTI CHANNEL INPUT. Adjust the attenuator or Volume so that the output level becomes 30V p-p. Confirm that the speaker relay turns OFF when a 1.5 ohm load is connected.

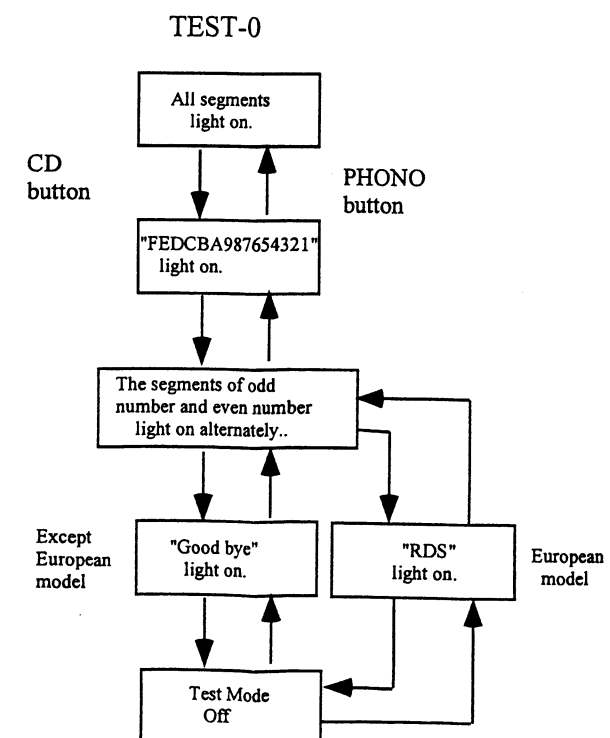
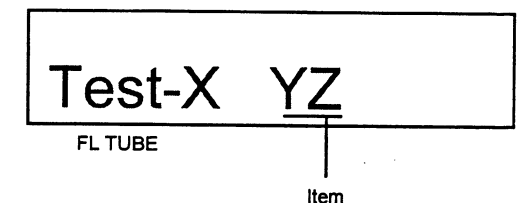


Test Mode

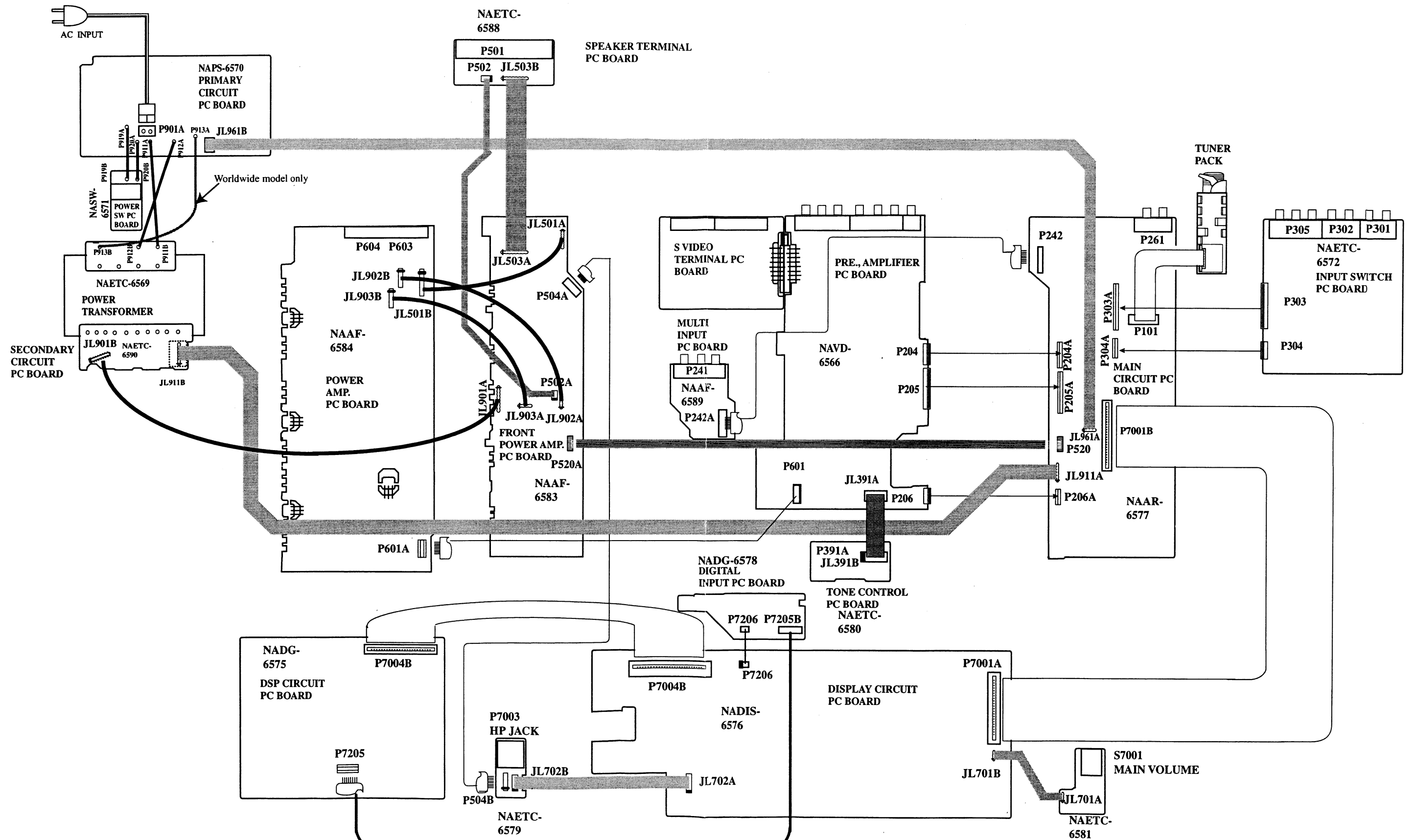
1. Turn POWER button on.
2. Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.
3. During "TEST-" on the FL tube is displayed, press CD, DVD, VIDEO 1, or VIDEO 2 button to set the unit to the test mode shown below.
4. Press CD or PHONO button to select the test item.

Button Operation in the Test Mode

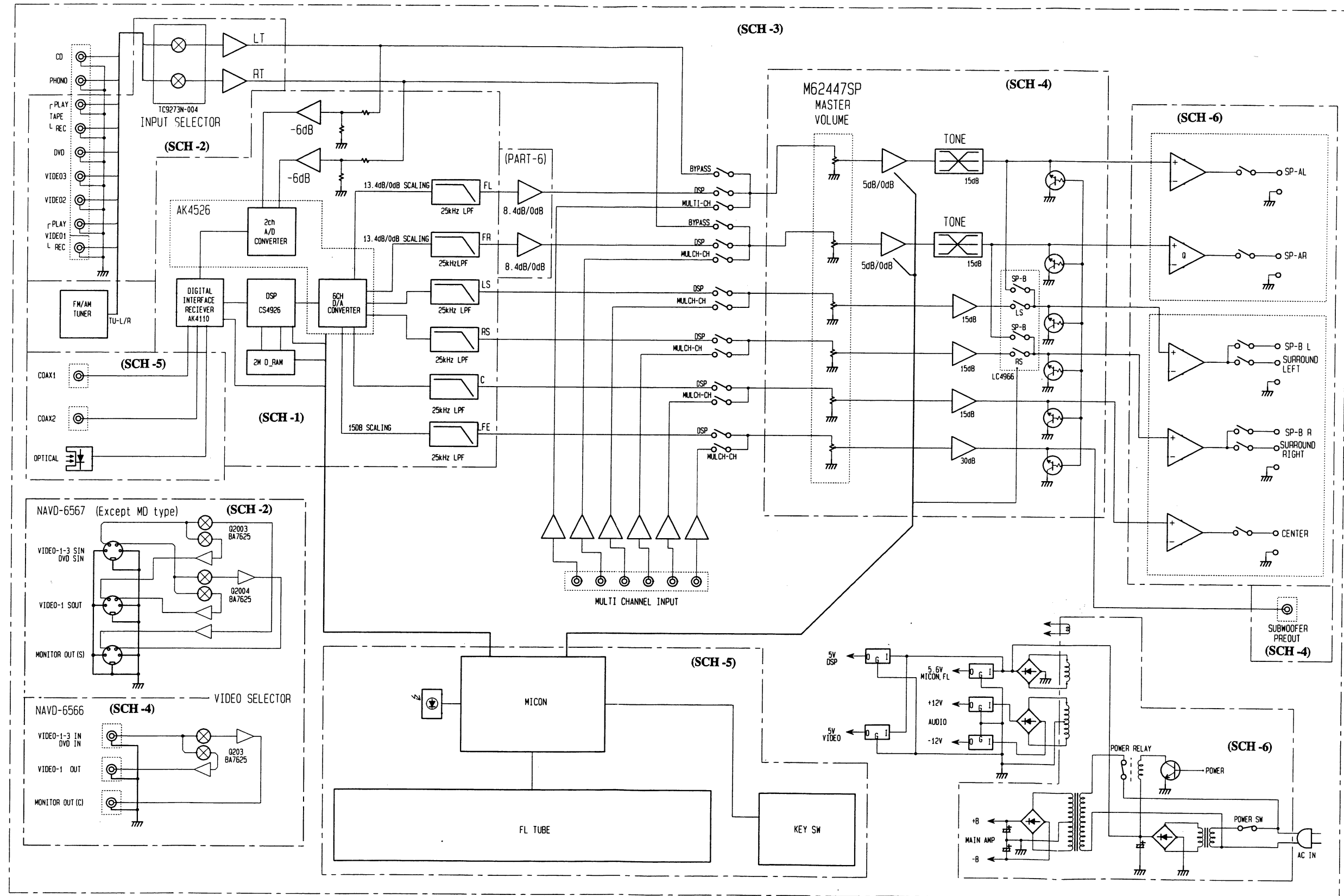
Button Operation	Test Mode
CD	TEST-0
DVD	TEST-1
VIDEO 1	TEST-2
VIDEO 2	TEST-3
CD	UP of item
PHONO	DOWN of item



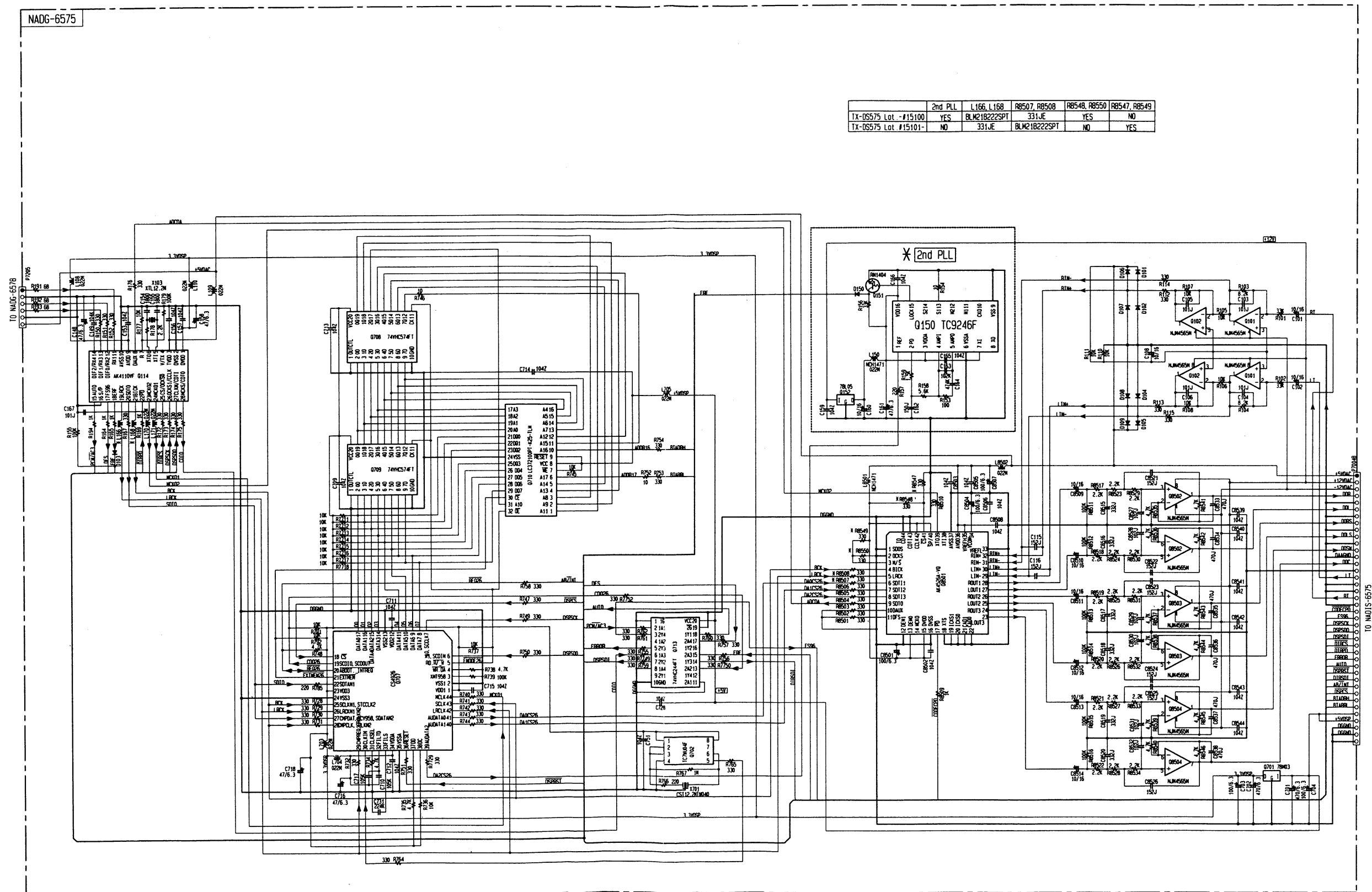
WIRING VIEW



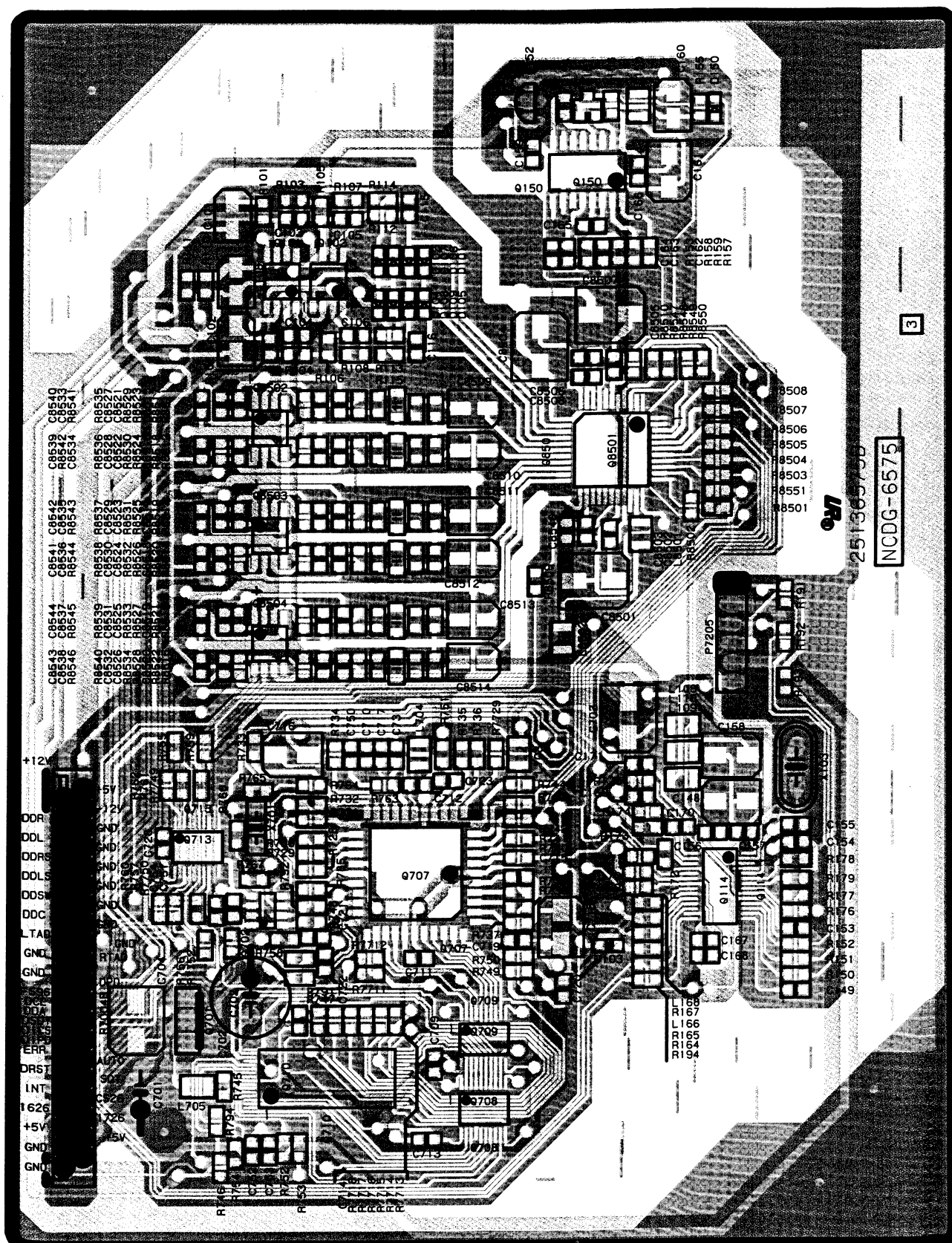
BLOCK DIAGRAM



NADG-6575

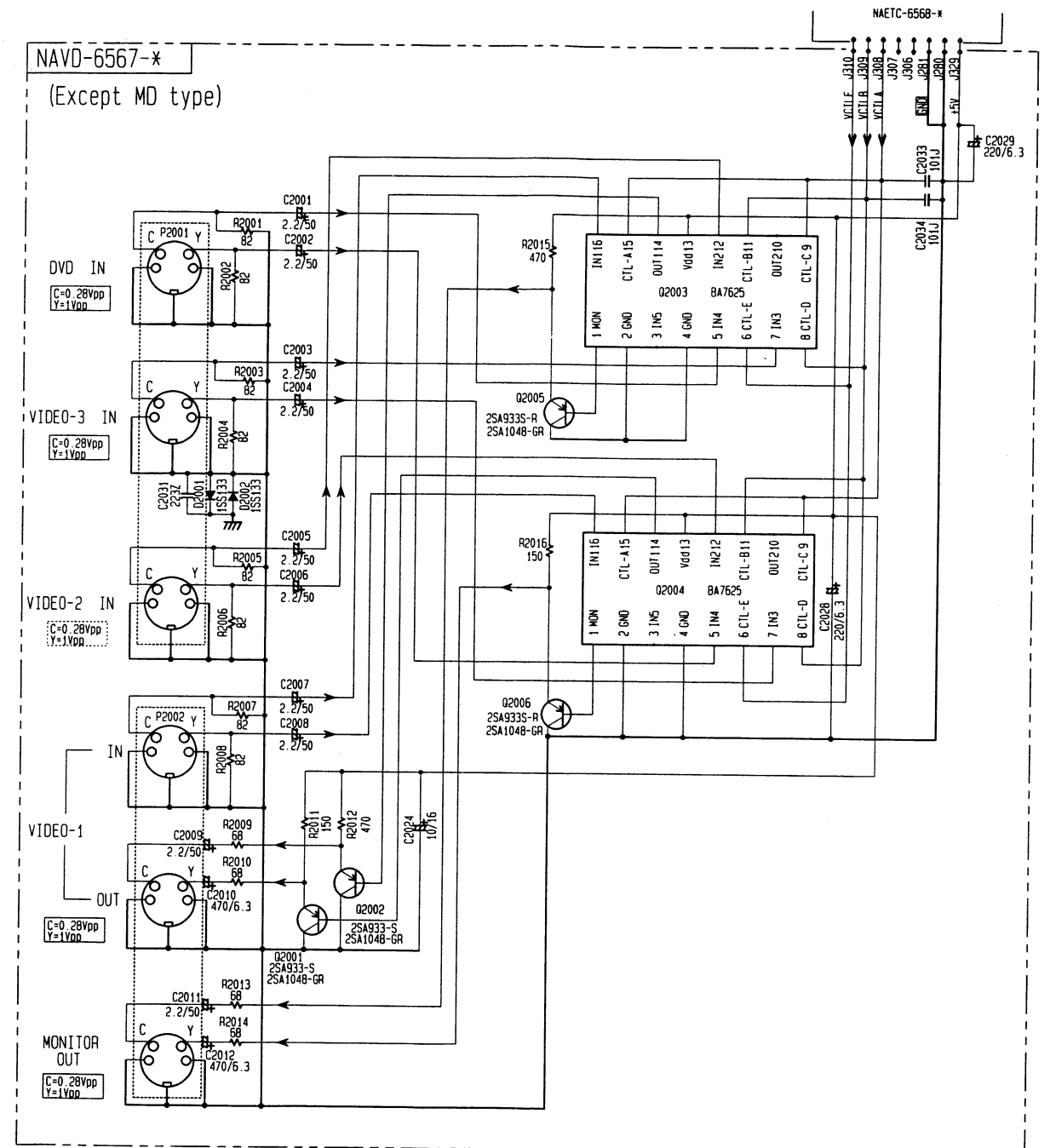
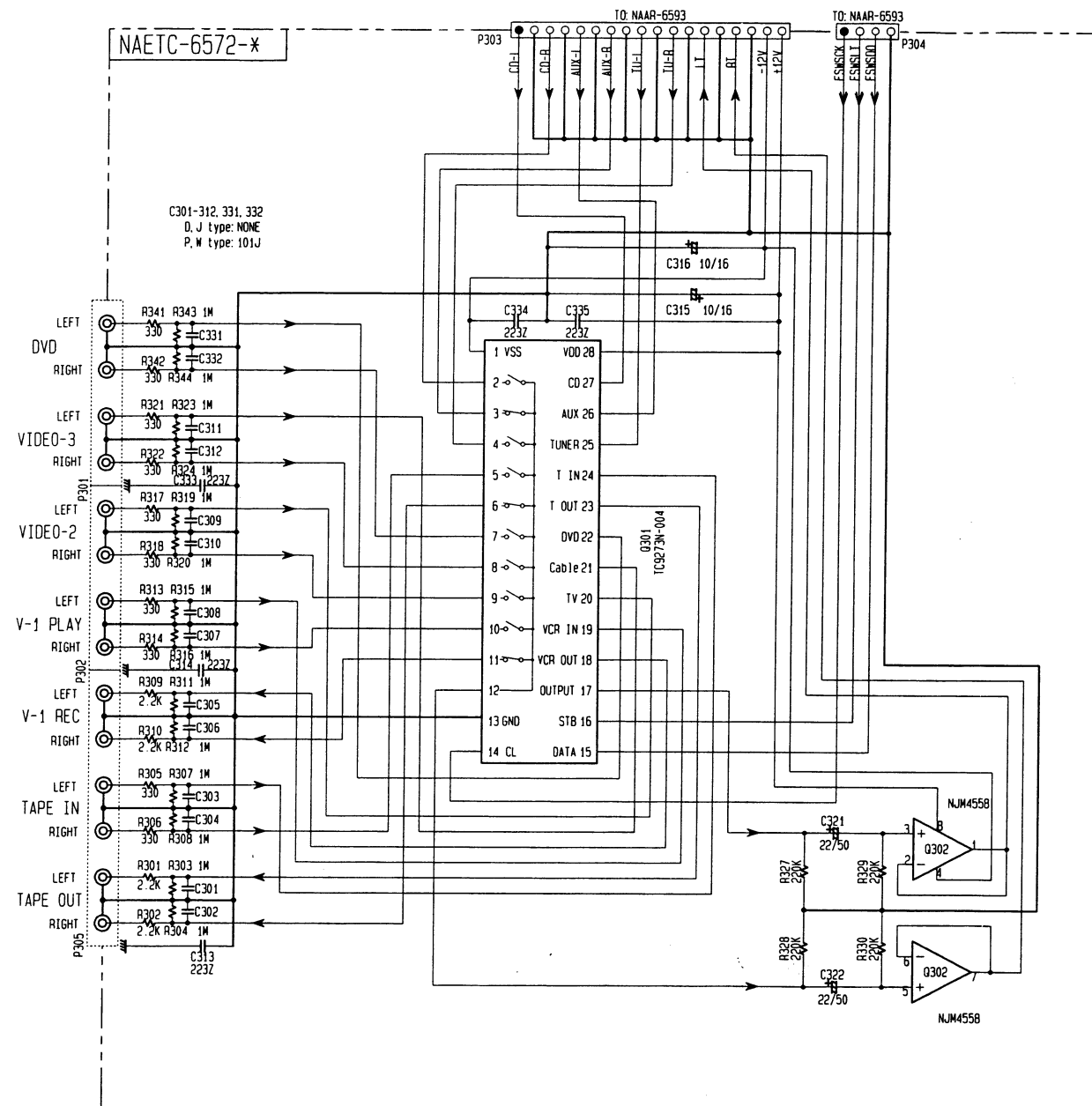


PRINTED CIRCUIT BOARD VIEW

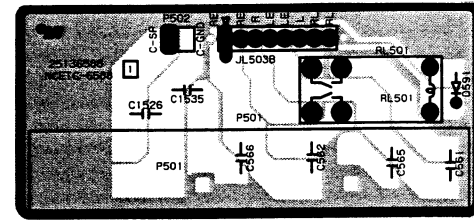


DSP CIRCUIT PC BOARD

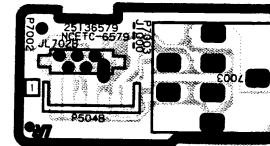
SCHEMATIC DIAGRAM 2



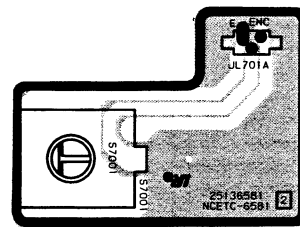
PRINTED CIRCUIT BOARD VIEW



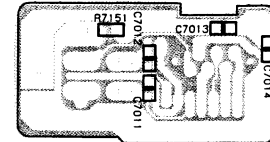
SPEAKER TERMINAL PC BOARD



Component side

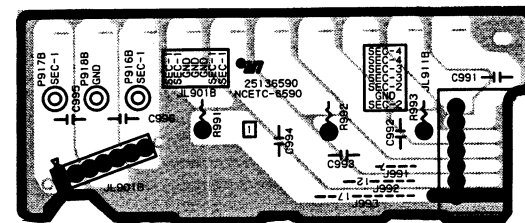


VOLUME CONTROL PC BOARD

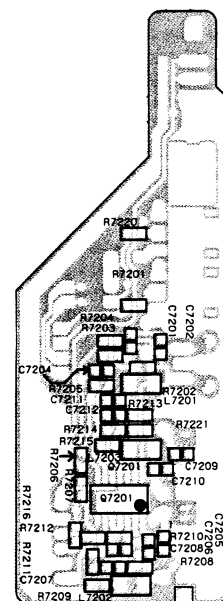


Soldering side

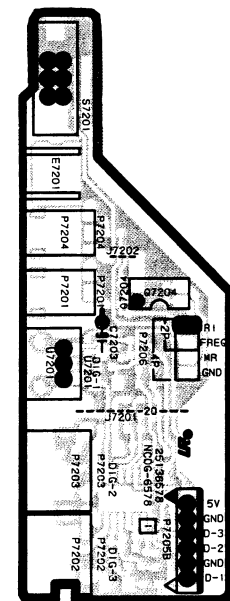
HEADPHONE TERMINAL PC BOARD



SECONDARY CIRCUIT PC BOARD

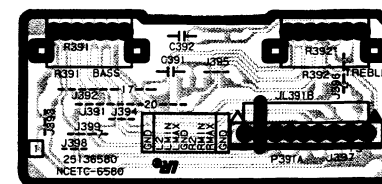


Soldering side

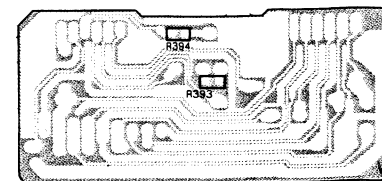


Component side

DIGITAL INPUT PC BOARD

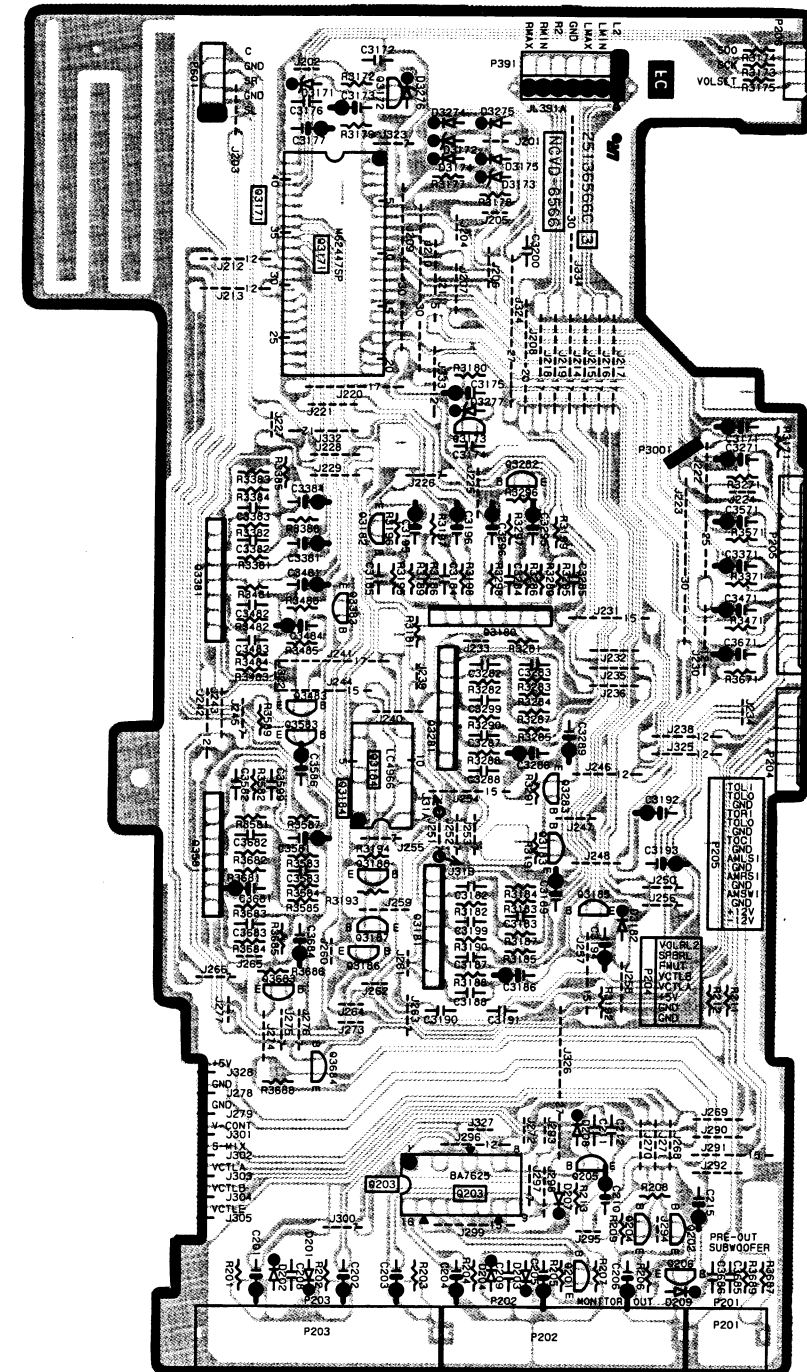


Component side



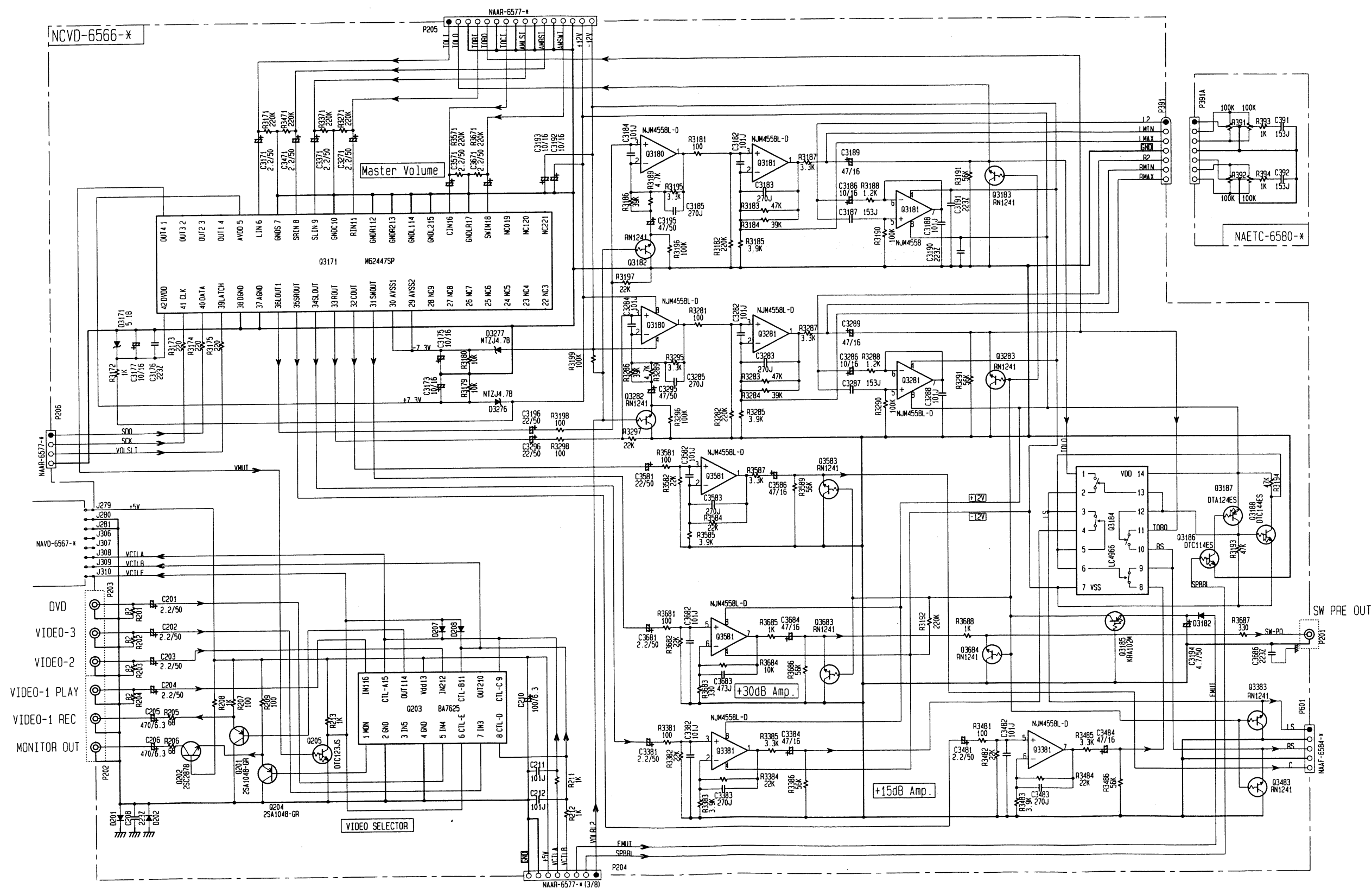
Soldering side

TONE CONTROL PC BOARD



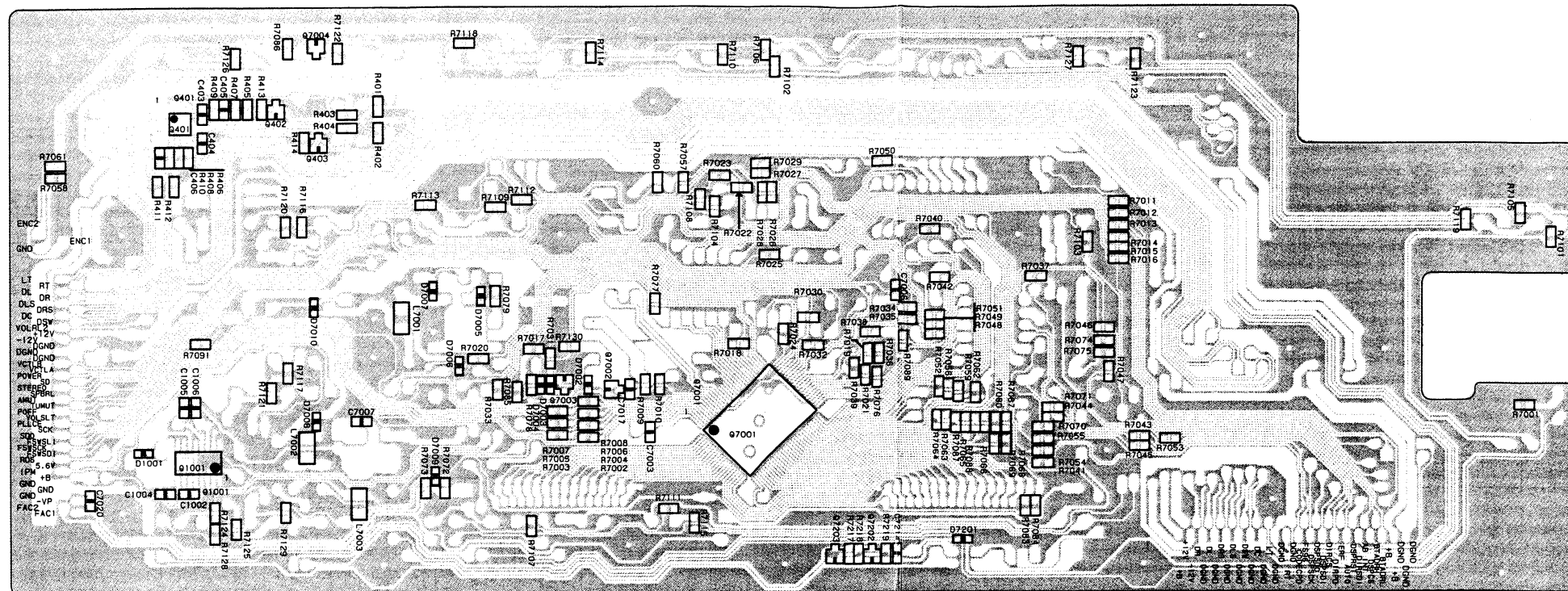
PRE., AMPLIFIER PC BOARD

SCHEMATIC DIAGRAM 4



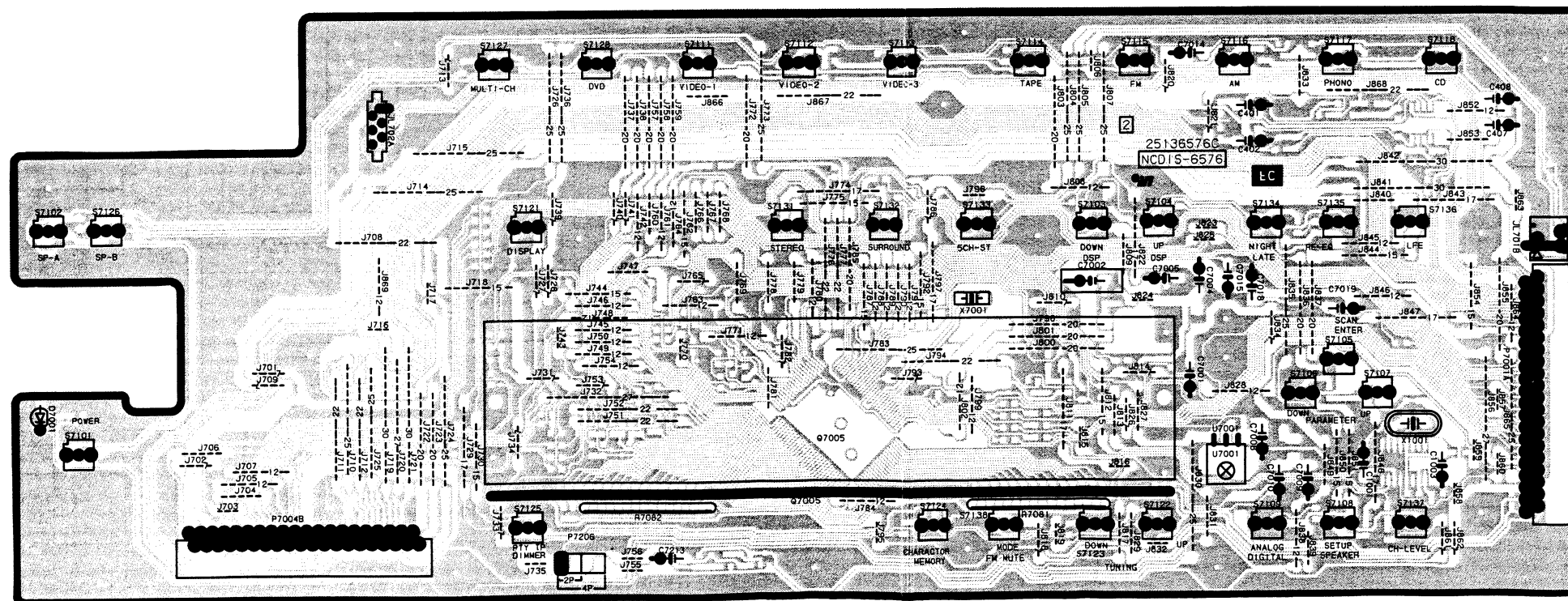
PRINTED CIRCUIT BOARD VIEW

Soldering side



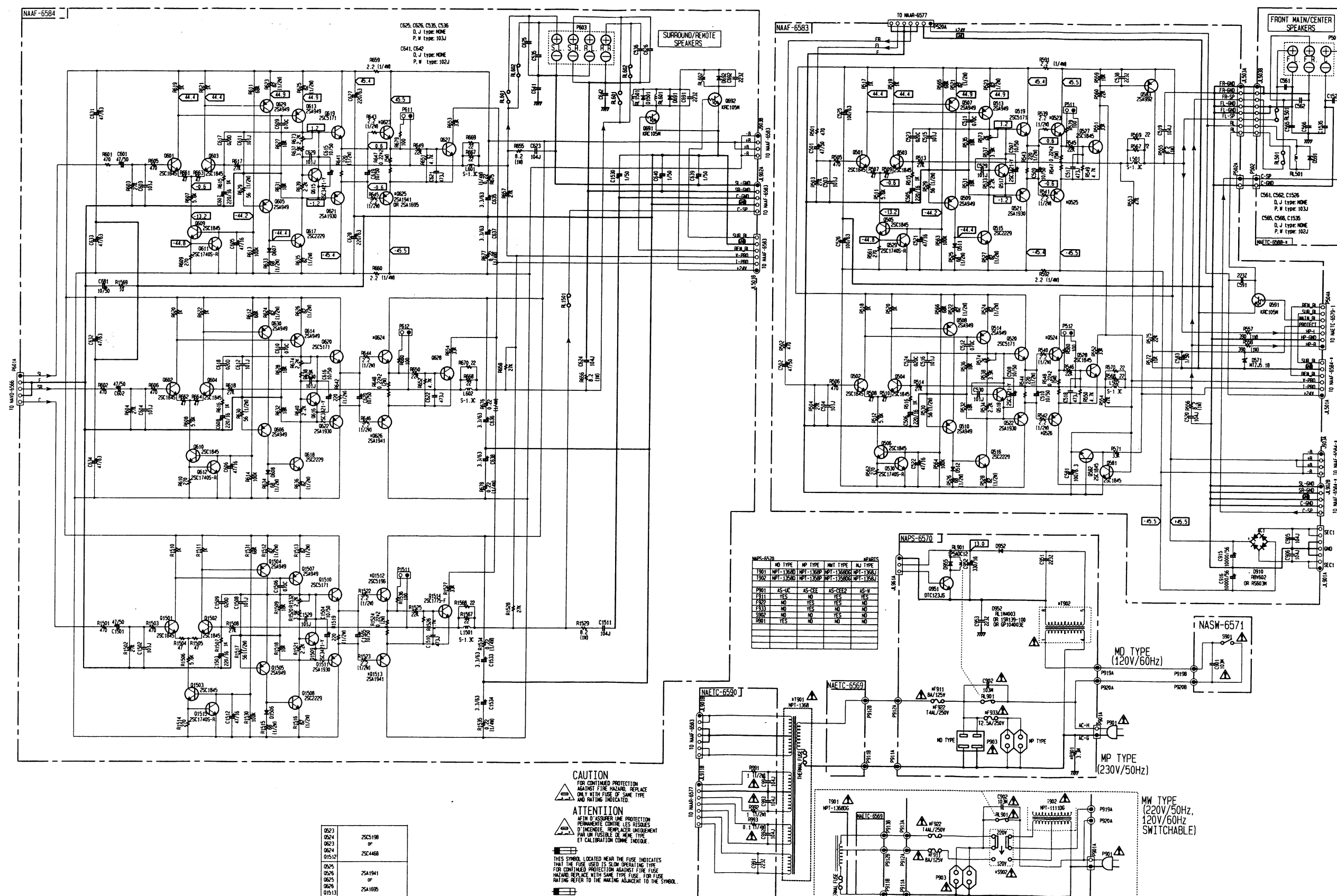
DISPLAY CIRCUIT PC BOARD

Component side



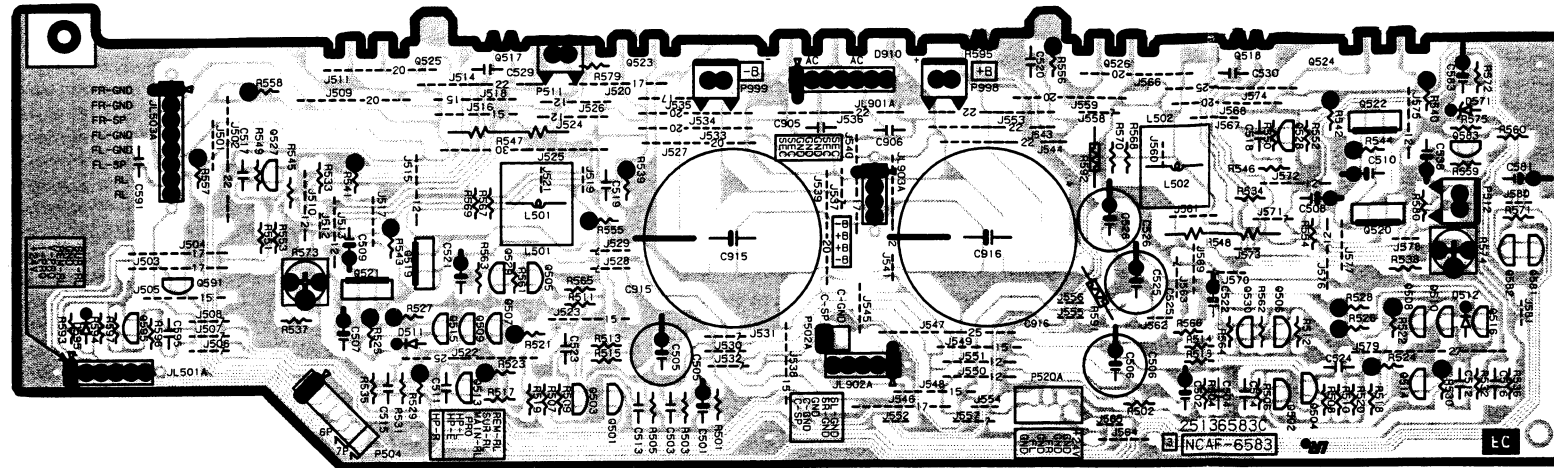
DISPLAY CIRCUIT PC BOARD

SCHEMATIC DIAGRAM 3

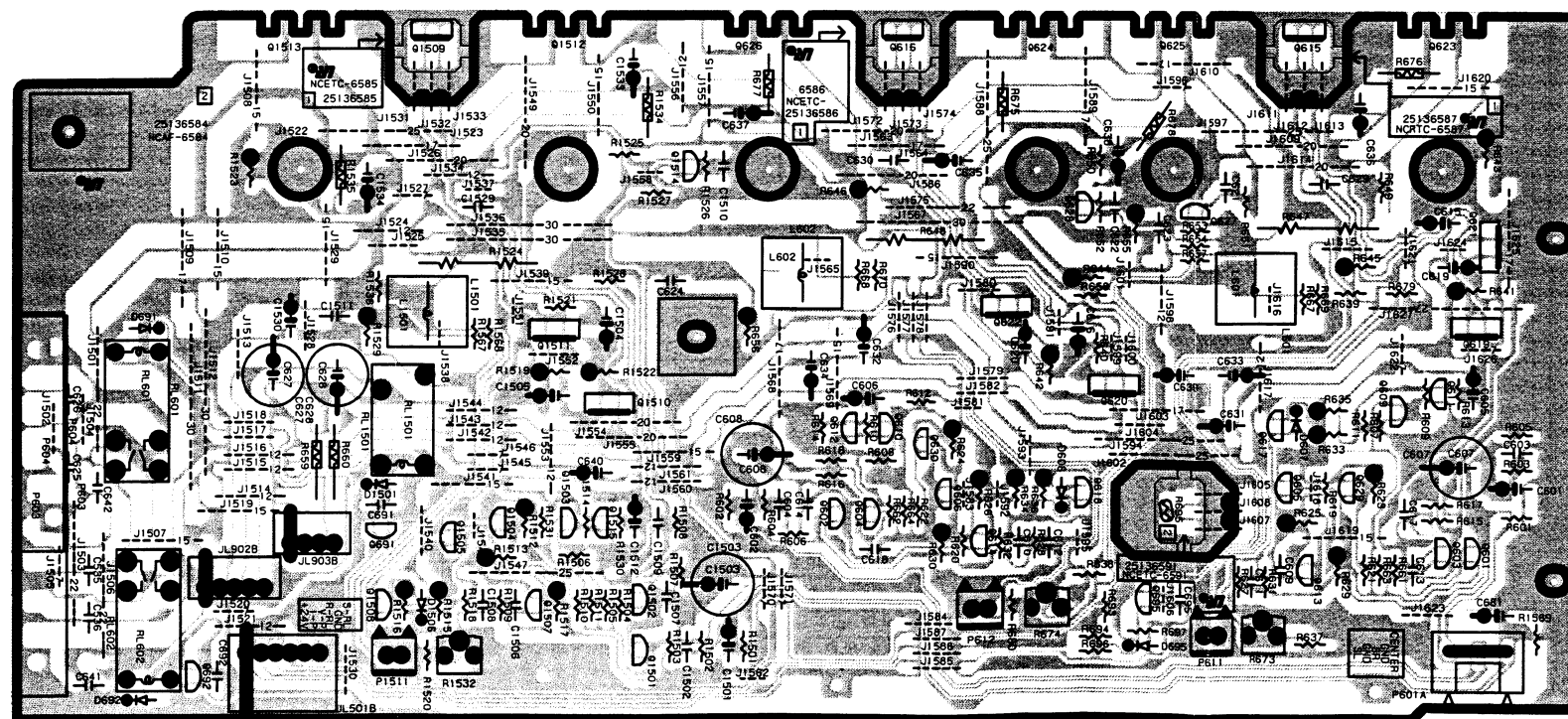


[illegible]

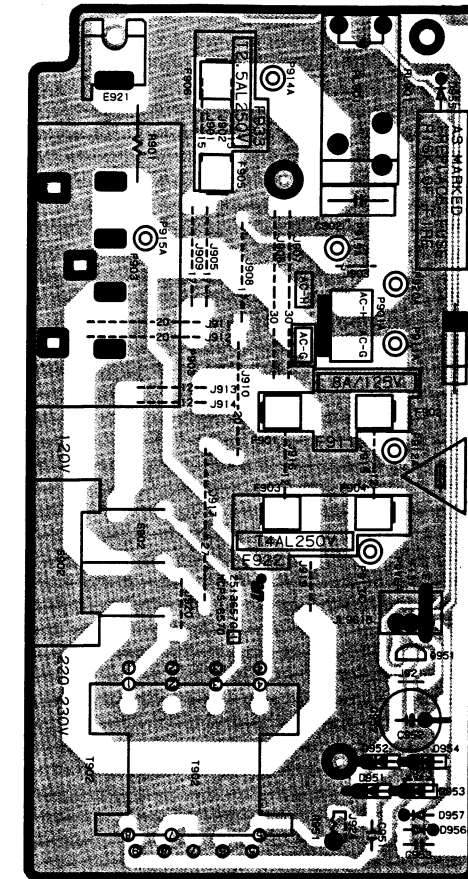
PRINTED CIRCUIT BOARD VIEW



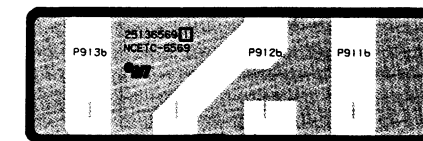
FRONT CHANNEL POWER AMPLIFIER PC BOARD



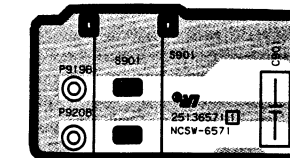
POWER AMPLIFIER PC BOARD



PRIMARY CIRCUIT PC BOARD



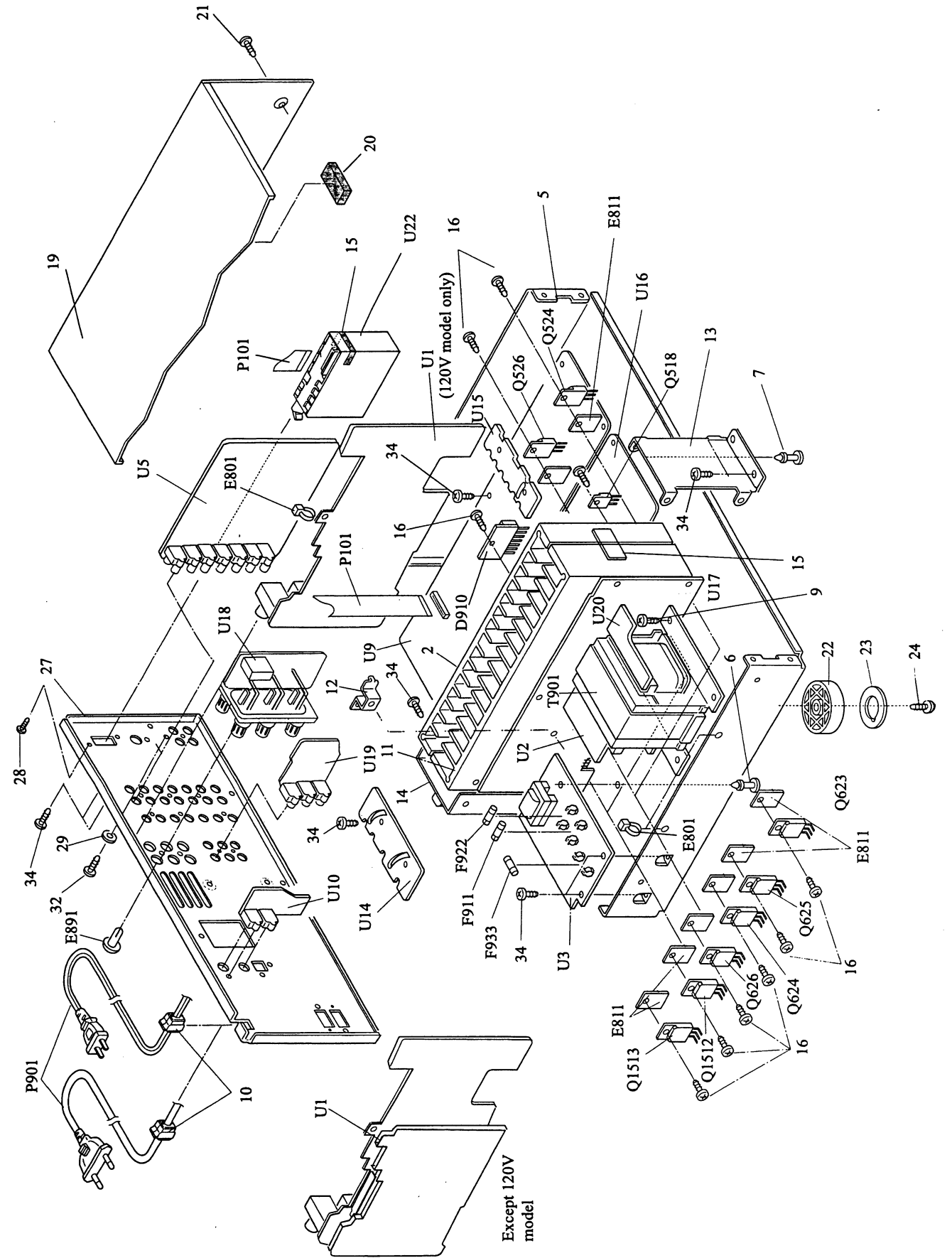
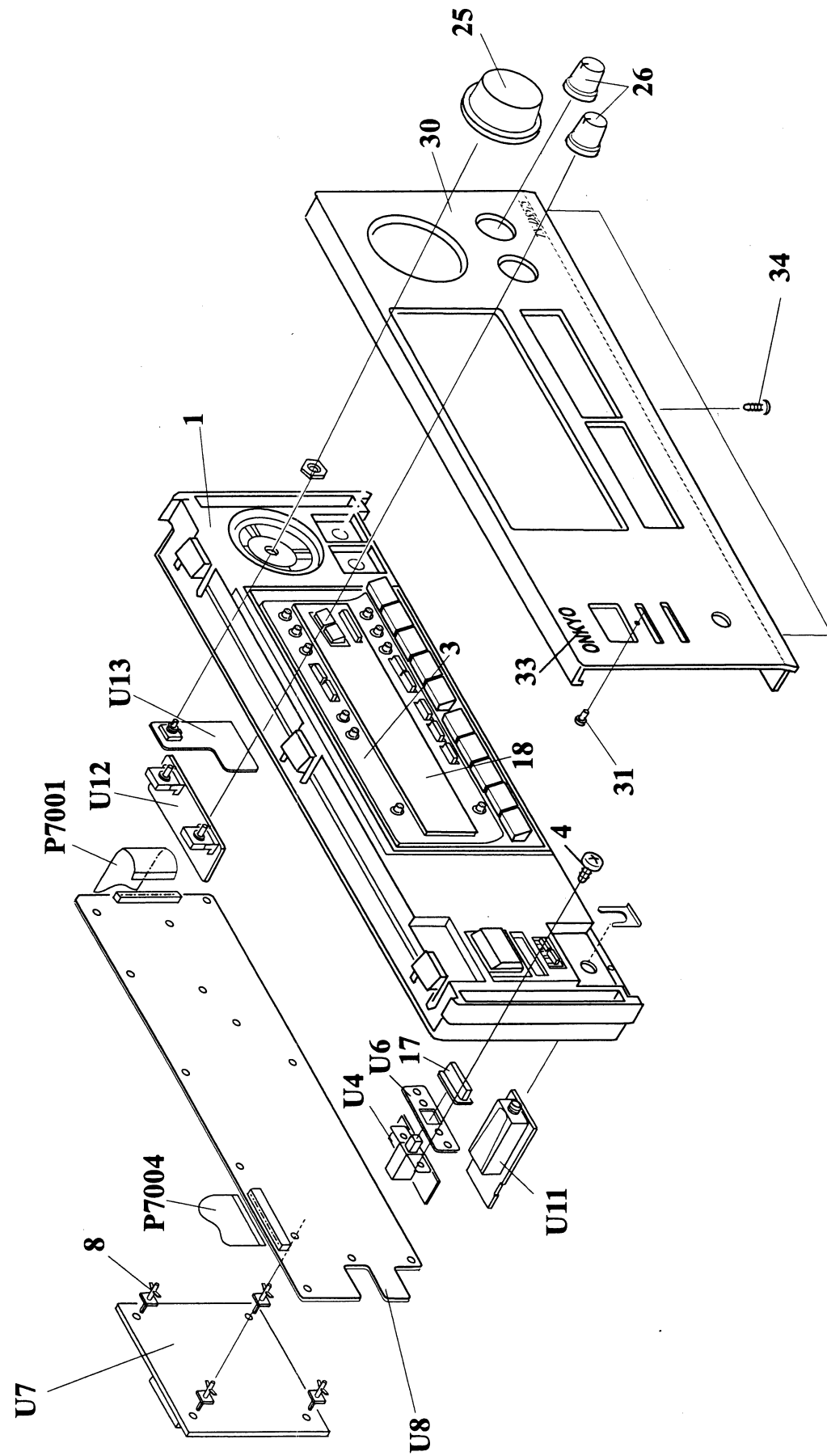
TRANSFORMER TERMINAL PC BOARD



POWER SWITCH PC BOARD

[illegible]

EXPLODED VIEW



PARTS LIST

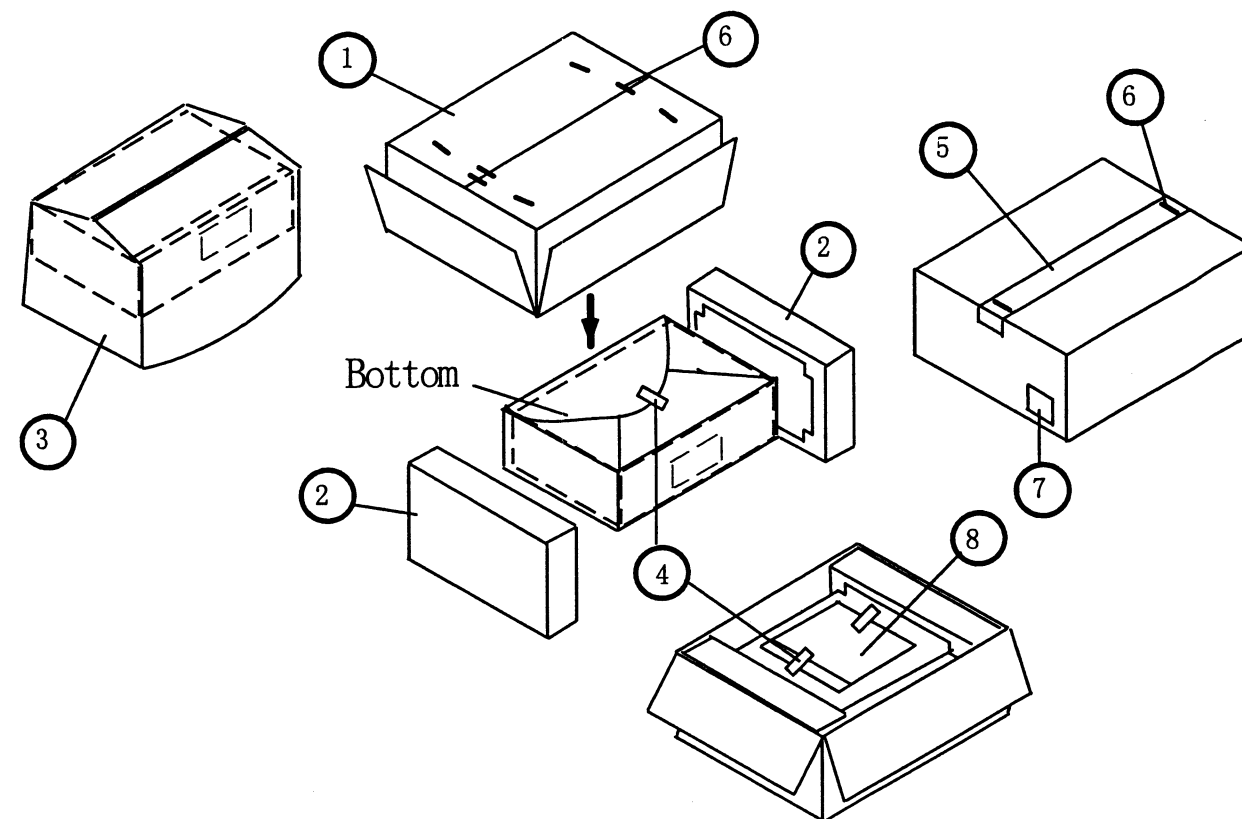
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	Note: : Black model only <S>: Silver model only <G>: Golden model only <D>: 120V model only <P>: 230V model only <T>: Asian model only <W>: Worldwide model only <A>: Australian model only <R>: Chinese model only
1	27111108	Front bracket 	27	27122569	Rear panel <D>			Rear panel <D>	
	27111109	Front bracket <S>		27122570A	Rear panel <P>			Rear panel <P>	
	27111110	Front bracket <G>		27122571A	Rear panel <T>			Rear panel <T>	
2	27160439	Heat sink S		27122572A	Rear panel <W>			Rear panel <W>	
3	27215319	Decorative frame <D/T/W/A>		27122573A	Rear panel <R>			Rear panel <R>	
	27215320	Decorative frame <S>		27122574A	Rear panel <P>			Rear panel <P>	
	27215321	Decorative frame <G>		838430068	3TTB+6B(BC),Self-tapping screw			3TTB+6B(BC),Self-tapping screw	
4	27215322	Decorative frame <P>	28	87643010	W3*10F(BC),Flat washer			W3*10F(BC),Flat washer	
	82143010	3P+10FN(BC), Pen head screw	29	27212086	Front panel 			Front panel 	
5	27100371A	Chassis	30	27212088	Front panel <S>			Front panel <S>	
6	27190266	KGLS-12RF,Holder		27212089	Front panel <G>			Front panel <G>	
7	27190428A	KGLS-10RF,Holder	31	28198778	Facet			Facet	
8	27190896	KGLS-10S,Holder	32	838930088	3TTB+8B(UN),Self-tapping screw			3TTB+8B(UN),Self-tapping screw	
9	830440089	4TTC+8C(BC), Self-tapping screw	33	28135244Y	Badge 			Badge 	
10	27300750	▲ Bushing, cord		28135245	Badge <S/G>			Badge <S/G>	
11	27160438	Heat sink L	34	838130088	3TTB+8B,Self-tapping screw			3TTB+8B,Self-tapping screw	
12	27141681	Retainer PWB	D910	22380038 or	RBV602 or			RBV602 or	
13	27141736	Retainer, front		22380274	RS603M,Diode			RS603M,Diode	
14	27141737	Retainer, rear	E801	262028	Wire tie			Wire tie	
15	29110083	Tape	E811	223024	AC238,Isolated sheet			AC238,Isolated sheet	
16	801433	3SMS8W.SW+14B(BC),Special screw	E891	880048	P-3035B-8L,Plastic rivet <P/T/A>			P-3035B-8L,Plastic rivet <P/T/A>	
17	28325497A	Knob, Power 	P101	2047152012	NCFC7-152012,Flexible flat cable			NCFC7-152012,Flexible flat cable	
	28325499A	Knob, Power <G>	P7001	2047402512	NCFC7-402512,Flexible flat cable			NCFC7-402512,Flexible flat cable	
	28325547A	Knob, Power <S>	P7004	2047401512	NCFC7-401512,Flexible flat cable			NCFC7-401512,Flexible flat cable	
18	28191846	Clear plate 	P7011	27190608-1	Clamp			Clamp	
	28191847	Clear plate <G/S>	Q1512	2203063,	* 2SC5198-O,			* 2SC5198-O,	
19	28184752	Top cover 	Q523,Q524	2203062,	* 2SC5198-R,			* 2SC5198-R,	
	28184753	Top cover <G>	Q623,Q624	2202523,	* 2SC4468-O,			* 2SC4468-O,	
	28184754	Top cover <S>		2202524 or	* 2SC4468-Y or			* 2SC4468-Y or	
20	28141272Y	10x60x20,Cushion		2202526	* 2SC4468-P,Transistor			* 2SC4468-P,Transistor	
21	838430088	3TTB+8B(BC),Self-tapping screw 	Q1513	2203053,	* 2SA1941-O,			* 2SA1941-O,	
	838930088	3TTB+8B(UN),Self-tapping screw <G/S>	Q525,Q526	2203052,	* 2SA1941-R,			* 2SA1941-R,	
22	27175319A	Leg	Q625,Q626	2202513,	* 2SA1695-O,			* 2SA1695-O,	
23	28141332	Cushion		2202514 or	* 2SA1695-Y or			* 2SA1695-Y or	
24	831430088	3TTW+8B(BC), Self-tapping screw	Q517,Q518	2212654 or	* 2SA1695-P,Transistor			* 2SA1695-P,Transistor	
25	28325648	Knob, Volume <D>		2212653	2SC3421-Y or			2SC3421-Y or	
	28325651	Knob, Volume <P/T/W/A>	T901	2301405	▲ NPT-1368D,Power transformer <D>			▲ NPT-1368D,Power transformer <D>	
	28325652	Knob, Volume <S>		2301406	▲ NPT-1368P,Power transformer <P/T/A>			▲ NPT-1368P,Power transformer <P/T/A>	
	28325653	Knob, Volume <G>		2301407	▲ NPT-1368DG,Power transformer <W>			▲ NPT-1368DG,Power transformer <W>	
26	28325405	Knob, Tone 							
	28325407	Knob, Tone <G>							
	28325474Y	Knob, Tone <S>							

CAUTION: Replacement for transistor of mark *, if necessary must be made from the same beta group (HFE) as the original type.

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
F911	252198Y	▲ 8A-UL,Fuse <D/W>	U9	1A832577-1A	NAAR-6577-1A,Main PC board assy <D>
F922	252077 or	▲ 4A-SE-EAK or		1A832577-1B	NAAR-6577-1B,Main PC board assy <P>
	252243	▲ 4A-SE-TL2.50V,Fuse <P/T/W/A>		1A832577-1C	NAAR-6577-1C,Main PC board assy <T/A>
F933	252075 or	▲ 2.5A-SE-EAK or	U10	1A832577-1D	NAAR-6577-1D,Main PC board assy <W>
	252241	▲ 2.5A-SE-TL2.50V,Fuse <P/T>		1A832578-1A	NADG-6578-1A,Digital input PC board assy <D>
P901	253279HIT or	▲ AS-UC-2#18 or		1A832578-1B	NADG-6578-1B,Digital input PC board assy <P>
	253280VOL	▲ AS-UC-2#18,Power supply cord <D>		1A832578-1C	NADG-6578-1C,Digital input PC board assy <T/A>
	253193HIT or	▲ AS-CEE or		1A832578-1D	NADG-6578-1D,Digital input PC board assy <W>
	253195MARY	▲ AS-CEE,Power supply cord <P/T>	U11	1A832579-1A	NAETC-6579-1A,Headphone terminal PC board assy <D>
	253233KAW	▲ AS-CEE-2,Power supply cord <WT>		1A832579-1B	NAETC-6579-1B,Headphone terminal PC board assy <P>
	253197HIT	▲ AS-SAA,Power supply cord <A>		1A832579-1C	NAETC-6579-1C,Headphone terminal PC board assy <T/A>
	253267KAW,	▲ AS-CCEE,		1A832579-1D	NAETC-6579-1D,Headphone terminal PC board assy <W>
	253285HIT or	▲ AS-CCEE or	U12	1A832580-1A	NAETC-6580-1A,Tone control PC board assy <D>
	253286VOL	▲ AS-CCEE,Power supply cord <R>		1A832580-1B	NAETC-6580-1B,Tone control PC board assy <P>
U1	1A832566-1A	NAVD-6566-1A,Pre., amplifier PC board assy <D>		1A832580-1C	NAETC-6580-1C,Tone control PC board assy <P>
	1A832566-1B	NAVD-6566-1B,Pre., amplifier PC board assy <P/T>		1A832580-1D	NAETC-6580-1D,Tone control PC board assy <W>
	1A832566-1C	NAVD-6566-1C,Pre., amplifier PC board assy <W>	U13	1A832581-1A	NAETC-6581-1A,Volume control PC board assy <D>
	1A832566-1D	NAVD-6566-1D,Pre., amplifier PC board assy <A>		1A832581-1B	NAETC-6581-1B,Volume control PC board assy <D>
U2	1A832569-1A	NAETC-6569-1A,Transformer terminal PC board assy <D>	U14	1A832582-1A	NAETC-6582-1A,Holder PC board for wire <D>
	1A832569-1B	NAETC-6569-1B,Transformer terminal PC board assy <P/T>		1A832582-1B	NAETC-6582-1B,Holder PC board for wire <P/T/W/A>
	1A832569-1C	NAETC-6569-1C,Transformer terminal PC board assy <W>	U15	1A832574-1A	NAETC-6574-1A,Holder PC board for wire <D>
	1A832569-1D	NAETC-6569-1D,Transformer terminal PC board assy <A>		1A832574-1B	NAETC-6574-1B,Holder PC board for wire <P/T/W/A>
U3	1A832570-1A	NAPS-6570-1A,Primary circuit PC board assy <D>		1A832583-1A	NAAF-6583-1A,Front channel power amplifier PC board assy <D>
	1A832570-1B	NAPS-6570-1B,Primary circuit PC board assy <P/T>	U16	1A832583-1B	NAAF-6583-1B,Front channel power amplifier PC board assy <P/T/W/A>
	1A832570-1C	NAPS-6570-1C,Primary circuit PC board assy <W>		1A832583-1A	NAAF-6584-1A,Power amplifier PC board assy <D>
	1A832570-1D	NAPS-6570-1D,Primary circuit PC board assy <A>	U17	1A832584-1A	NAAF-6584-1B,Power amplifier PC board assy <P/T/W/A>
U4	1A832571-1A	NASW-6571-1A,Power switch PC board assy <D>		1A832584-1B	NAETC-6584-1B,Speaker terminal PC board assy <D>
	1A832571-1B	NASW-6571-1B,Power switch PC board assy <P/T>	U18	1A832588-1A	NAETC-6588-1A,Speaker terminal PC board assy <D>
	1A832571-1C	NASW-6571-1C,Power switch PC board assy <W>		1A832588-1B	NAETC-6588-1B,Speaker terminal PC board assy <P/T/W/A>
	1A832571-1D	NASW-6571-1D,Power switch PC board assy <A>	U19	1A832589-1A	NAETC-6589-1A,Multi-channel input terminal PC board assy <D>
U5	1A832572-1A	NAETC-6572-1A,Input switch PC board assy <D>		1A832589-1B	NAETC-6589-1B,Multi-channel input terminal PC board assy <P/T/W/A>
	1A832572-1B	NAETC-6572-1B,Input switch PC board assy <A>	U20	1A832590-1A	NAETC-6590-1A,Secondary circuit PC board assy <D>
	1A832572-1C	NAETC-6572-1C,Input switch PC board assy <P/T>		1A832590-1B	NAETC-6590-1B,Secondary circuit PC board assy <P/T/W/A>
	1A832572-1D	NAETC-6572-1D,Input switch PC board assy <W>	U22	240134	TFCEIU114A,Tuner unit <D>
U6	1A832573-1A	NAETC-6573-1A, PC board for holder <D>		240135	TFCEIE512A,Tuner unit <P/T/W/A>
	1A832573-1B	NAETC-6573-1B, PC board for holder <P/T>			
	1A832573-1C	NAETC-6573-1C, PC board for holder <W>			
	1A832573-1D	NAETC-6573-1D, PC board for holder <A>			
U7	1A832575-1	NADG-6575-1,DSP circuit PC board assy			
U8	1A832576-1A	NADIS-6576-1A,Display circuit PC board assy <D>			
	1A832576-1B	NADIS-6576-1B,Display circuit PC board assy <P>			
	1A832576-1C	NADIS-6576-1C,Display circuit PC board assy <T/A>			
	1A832576-1D	NADIS-6576-1D,Display circuit PC board assy <W>			

NOTE: THE COMPONENTS IDENTIFIED BY MARK ▲ ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

PACKING VIEW



REF. NO.	PART NO.	DESCRIPTION
1	29053413	Carton box <D>
	29053414	Carton box <P>
	29053415	Carton box <T/W/A>
	29053417	Carton box <S>
	29053416	Carton box <G>
2	29091844	Pad
3	29100034-1A	850*650, Polybag
4	261504	Paper tape
5	29110071 or	PP tape
	29110098	PP tape
6	282301	Staple
7	29362439	Label UPC <D>
	29362441	Label EAN <P/T/W/A>
	29362442	Label EAN <S>
	29362443	Label EAN <G>
8	232140	NMA-3057, AM loop antenna
	24140391A	RC-391M, Remote controller
	25055018	CV-K-1, Conversion plug <WT>
	25065462	YAE21-0237, Antenna adapter <T/W/A>
	29095866	Sheet <D>
	29100097-1A	350*250, Polybag
	292115	FM antenna <P/T/W/A>
	292142	FM antenna <D>
	29342699A	Instruction manual E
	29342700	Instruction manual U3 GDSW <P>
	29342701	Instruction manual U3 FSI <P>
	29342702	Instruction manual T <T/W>
	29342709	Instruction sheet <D>
	29342760	Instruction sheet, S video <P/T/W/A>
	29361786	Label <T/WT>
	29365083	Warranty card <D>
	3010054	UM-3, Battery

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